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Journal  
1988 (Pt.)

Hasting Reservation  
Monterey Co., Calif.





Journal  
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Hasting Reservation  
Monterey Co., Calif.



RIBBLE, D.O.  
1988

Journal

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Hastings Natural History Reservation, Monterey Co., Calif.

Jan. 7. Arrived back down this afternoon around 1400hrs after a wonderful Christmas break! It snowed 5 inches down here while I was away, causing many branch falls. The high grasses and reeds along the creek bottoms are also smashed down. I set traps on grid RC from <sup>(3 drift fence)</sup> 1430 to 1630 hrs. A Bay tree south of station F, 12 has fallen since I was last ~~there~~ <sup>here</sup>. Also, there are many Buckeyes on the ground, several which had rodent gnaw marks. Scott Edwards and Francis Villablanca met up with me just as I finished up. Francis will be around until tomorrow and Scott until the 10th.

2140hrs - Out checking traps. It's overcast, calm, very slight drizzle. Finished checking traps by 2340hrs - great results this evening.

Jan 8. 0720hrs - out checking traps on RC. It's overcast, calm, upper 40's. Finished checking traps by 0930 and returned to lab with 3 animals to bleed. Summary of results on grid

	7 (PM)	8 (AM)	# individuals
<u>P. californicus</u>	6 captures (1 new)	8 captures (2 new)	12
<u>P. boylii</u>	16 " (11 new)	12 " (2 new)	25
<u>M. californicus</u>	1 "	0	1
<u>Perognathus</u>	3 "	3 "	4
<u>N. fuscipes</u>	5 " (3 new)	1 "	5
<u>Sorex</u>	0	1 mortality	1
<u>R. megalotis</u>	0	1 " (1 new)	1
TOTAL	31 captures (15 new)	26 captures (5 new)	49 ind.

Spent part of the afternoon helping Scott mist-net birds along Big Creek. Reset traps on RC grid's drift lines from 1500 to 1600hrs. Note that I caught a P. californicus (# 1953) and M. californicus (# 0120). Today was overcast all day, so perhaps that's why the P. californicus was out today.





ZIBBE, D.O.  
1988

Journal

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Hastings Natural History Reservation, Monterey Co., Calif.

Jan. 7. Arrived back down this afternoon around 1400hrs after a wonderful Christmas break! It snowed 5 inches down here while I was away, causing many branch falls. The high grasses and reeds along the creek bottoms are also smashed down. I set traps on grid RC from <sup>( $\frac{1}{2}$  drift fence)</sup> 1430 to 1630 hrs. A Bay tree south of station F, 12 has fallen since I was last ~~there~~ <sup>here</sup>. Also, there are many Buckeyes on the ground, several which had rodent gnaw marks. Scott Edwards and Francis Villablanca met up with me just as I finished up. Francis will be around until tomorrow and Scott until the 10th.

2140hrs - out checking traps. It's overcast, calm, very slight drizzle. Finished checking traps by 2340hrs - great results this evening.

Jan 8. 0720hrs - out checking traps on RC. It's overcast, calm, upper 40's. Finished checking traps by 0930 and returned to lab with 3 animals to bleed. Summary of results on grid

	F (PM)	B (AM)	# individuals
<u>P. californicus</u>	6 captures (1 new)	8 captures (2 new)	12
<u>P. boylii</u>	16 " (11 new)	12 " (2 new)	25
<u>M. californicus</u>	1 "	0	1
<u>Perognathus</u>	3 "	3 "	4
<u>N. fuscipes</u>	5 " (3 new)	1 "	5
<u>Sorex</u>	0	1 mortality	1
<u>R. megalotis</u>	0	1 " (1 new)	1
TOTAL	31 captures (15 new)	26 captures (5 new)	49 ind.

Spent part of the afternoon helping Scott mist-net birds along Big Creek. Reset traps on RC grid's drift lines from 1500 to 1600hrs. Note that I caught a P. californicus (#1955) and M. californicus (#0120). Today was overcast all day, so perhaps that's why the P. californicus was out today.



Hastings Reservation, Monterey Co., Calif.

Jan 8 (cont). Set traps on MC drift fences from 1630 to 1700 hrs.

2100 hrs - out checking traps on RC. It's partly cloudy, calm, temp in upper 40's. Finished by 2230 hrs and headed home. The moon is just beginning to rise in the east.

Jan 9 0710 hrs - out checking traps on MC drift lines. It's overcast, calm, temp in 40's. It was clear at 0600 hrs and the moon was ~ 1/2 full in the west skies. The sun burned the clouds off early this morning, resulting in a beautiful morning. Finished checking all traps by 0830 hrs and returned to lab with new *P. californicus*

from good RC to collect tissues. Summary of Results:

	B (Pm)	89 (Am)	# individuals
<i>P. californicus</i> :	7 captures	8 captures (1 new)	11
<i>P. boylii</i> :	11 " (2 new)	17 " (2 new)	24
<i>Microtus</i> :	1 "	1 " (1 new)	2
<i>Perognathus</i> :	2 "	2 "	3
<i>Neotoma</i> :	7 " (3 new)	2 " (1 new)	9
<b>TOTAL :</b>	<b>28 captures</b>	<b>30 captures</b>	<b>49 individuals</b>

Almost same results as night of 7-8th.

After bleeding #1152, I spent the rest of the morning and early afternoon working on data. Today was sunny, clear, low 60's. I reset MC drift fences from 1500 to 1530 hrs, and RC traps from 1545 to 1630 hrs. I released #1152 in good shape while resetting traps.

I'm coming down with a cold, and since there are no ~~pe~~ lactating *P. californicus* on the grid, I'm not going to check traps this PM.





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Jan 10 0710hrs - out checking traps on MC drift fences. It's clear, calm, mid 40's. Finished checking traps by 0930hrs. Female # 1074 was found dead in a trap this am, along with a *Sorex* & *P. boylii*. (See *P. californicus* Spp Acct). Returned to lab to stuff these.

Summary of results this am on RC:

<i>P. californicus</i>	: 10 captures (1 mortal.)
<i>P. boylii</i>	: 15 captures (1 ")
<i>Microtus</i>	: 2 "
<i>Perognathus</i>	: 4 "
<i>N. fuscipes</i>	: 5 "

TOTAL CAPTURES: 36 captures.

Clouds moved in this am resulting in cloudy skies today. In the afternoon I added 8 traps to the drift fence west of RC because I've been having > 50% trap success. Thus, there are 2 traps every 5m from W-1 to W-11. I reset RC grid from 1530 to 1630hrs, taking care to check all traps for sufficient bait. I also added a crumpled up paper towel to those traps which are especially prone to get damp. Reset MC drift fence from 1645 to 1515 hrs. The fog began to roll in this afternoon. 2245hrs - out checking traps on RC with Scott. It's <sup>clear</sup> ~~overcast~~ and warmish (50's). Will only check the main part of the grid. We finished checking traps by 2345hrs and headed home.

Jan 11 0700hrs - out checking traps on MC drift fence. It's overcast and raining off and on. At 0600hrs this am it was raining hard. It never rained while we were checking traps this am, but it remained mostly overcast. Finished checking all traps by 0910hrs and returned to lab to bleed animals.



730-910-1040

Hastings Reservation, Monterey Co., Calif.

<u>Adams Reservation, Monterey Co., Calif.</u>				
Jan 11 (cont) Summary of trap results:		10 (pm)	11 (Am)	# ind
		5 captures (lines)	6 captz	
	<u>P. californicus</u>	5 "	11 "	8
	<u>P. boylii</u>	5 "	11 "	13
	<u>Microtus</u>	1 "	—	1
	<u>Perognathus</u>	2 "	4 1 "	5
	<u>Neotoma</u>	2 "	2 "	3
	<u>Sorex</u>	1 mortality		1
	TOTAL	16	23	35

Before noon, Scott and I set out traps on MC which I will set this afternoon. I set all traps on MC from 1400 to 1600 hrs, and RC traps from 1615 to 1700 hrs. I forgot to take the new animals bled this am to grid RC, so I had to go back to the lab to get them. They were released in good shape around 1715 hrs. Today was mostly clear and sunny, temp in low 50's.

2115 hrs - out checking traps on RC. It's clear, calm, no moon, and cool (low 40's). Finished checking all traps but row 8 by 2210 hrs and headed towards MC grid. I only checked the top 2 rows (9, 10, 11) on MC. Good results for P. californicus. Headed home for sleep at 2320 hrs.

Jan 12. 0730 hrs - out checking traps on MC. It's clear, calm, and cold. There is a heavy frost this am. I finished checking traps on MC around 0900 hrs. Caught 2 new immature P. californicus which were bordering on torpor, so I kept them in my breast pockets back to the lab. Since I was running late, I didn't pickup traps on Grid RC. Finished by 1040 hrs and returned to lab to bleed animals & stuff P. boylii mortality. Discovered that one of the immature P. californicus returned to lab was P. boylii (#4430).





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Jan 12 (cont)	Summary of results on RC:		11 (pm)	12 (am)	# individuals
	<u>P. californicus</u>		3 (1 new)	6	8
	<u>P. boylii</u>		7	12 (2 new)	16
	<u>Microtus</u>		1	1	2
	<u>Perognathus</u>		1	4	4
	<u>Neotoma</u>		4	4 (1 new)	6
	TOTAL:		16	27	36

Summary of results on MC:		<u>P. californicus</u>	8	6 (1 new)	10
		<u>P. boylii</u>	1 (1 new)	9 (3 new)	10
		<u>P. truei</u>	3	5	7
	TOTAL:		12	20	27

Today was clear and warm (60's) - very nice. I returned MC animals to their capture sites in good shape around 1300 hrs. I picked up all the folding Sermans and cleaned out the non-folding Sermans on RC from 1415 to 1530 hrs. I discovered a Microtus at 6,18 (#0440) and a torpid P. boylii (at 7,10) (#04130) when picking up traps. I couldn't get the P. boylii to warm up so I kept him in my pocket until I was at the lab - I left him in the plastic holding cage. I reset MC traps from 1600 to 1700 hrs. Quite the day!... 2115 hrs - out to check the top 2 rows of grid MC. It's mostly clear with a thin layer of high clouds, temp in 40's. No moon yet. Redusted #1104 with Green Powder tonight. Finished by 2215 hrs.

Jan. 13 0700 hrs - out checking traps on MC. It's clear, calm, and cool (40's). Finished checking all traps by 0900 hrs and returned to stuff P. boylii (#04130) from Grid RC that died overnight. I spent the rest of the morning splitting and loading firewood for the cabin.



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Jan 13 (cont)

		12 (pm)	13 (am)	# individuals
Summary of trap results:	<i>P. californicus</i>	3	4	5
	<i>P. boylii</i>	3	7 (1 new)	8
	<i>P. truei</i>	6 (3 new)	7	10
	Total	12	18	23

I spent most of the afternoon analyzing capture data. From 1530 to 1600hrs I reset RC drift fence traps plus a transect east of RC. Trap sites are the same as before (5 stations between grid & east drift fence, 2 traps per station). Reset MC traps from 1615 to 1700hrs. Today was sunny & warm, although some clouds appeared in the east as the sun set.

2045hrs - out checking traps on MC. It's clear, calm, and warmer than previous nights. No moon tonight. Tonight I'm going to check the entire grid. Finished by 2200hrs and moved onto the transect east of RC. On grid MC, 40% of the traps along the creek bottom had been turned over. No tracks found, but one trap had been urinated on (no smell to urine), and I did get a couple of skunk scents. Who knows? I should set out Havaharts tomorrow.

Results on transect east of RC

	Trap St.	No.	Spp.	Wt.	Sex	Age	Brdg.	
N	1	01210	<i>P. boylii</i>	22	♂	SAD	WID clear	
	2	1974	<i>P. californicus</i>	44	♀	M	imp, parous.	Testis shriveled up, no sign of recent breeding activity
N	4	01220	<i>P. boylii</i>	24	♀	early M	imp, parous?	

Finished by 2230hrs and headed home.

Jan 14 0700hrs - out checking traps on MC. It's clear (some thin high clouds in west), cool (mid 40's), and moon is directly over and 1/4 full.

Finished MC by 0815hrs and proceeded to RC. Results on transect east of RC:

St.	#	Spp.	Wt.	Sex	Age	Brdg.	
1	1140	<i>P. californicus</i>	31	♀	SAD	imp, nullip.	
1	Cat # 024	<i>S. townsendi</i>	6	♂	M		Mortality.
2	01010	<i>R. megalotis</i>					lactating, see drift fence data



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Hedding Reservation, Monterey Co., Calif.

Transect east of RC (cont)

Jan 14 (cont) 4 01240 *P. boylii* 20 ♀ SAD imp. nullip.

5 0210 *P. megalotis* 10 ♂ M scrotal

Finished checking traps by 0920hrs and returned to lab to stuff mortalities and bleed #1471 ♂ from 5nd MCL for Prolactin project.

Summary of results on MC:	13 (pm)	14 (am)	# ind.
<i>P. californicus</i>	4	7	8
<i>P. boylii</i>	4	6 (1 new)	6
<i>P. tuesi</i>	5	10 (1 new)	11
<i>Perognathus</i>	0	1	1
TOTAL	13	24	26

Released #1471 at its capture site around noon. Spent the afternoon analyzing data. Reset RC traps & transect east of RC from 1545 to 1615 hrs. Discovered 4 newborn *Microtus* in trap on RC drift fence (See Sp. Sect *Microtus*). Reset MC traps from 1630 to 1715 hrs. Set a large Tomahawk live trap at station B, 12 to try <sup>to</sup> catch whatever is turning over traps. Clouds moved in late this afternoon from an approaching storm.

2100hrs - out checking traps on MC. It's calm, overcast, upper 40s. I checked all traps this evening. Again, many traps were turned and I found urine on 2 traps - one which was adjacent to the large Tomahawk which had no sign of entry. The urine has no particular foul smell, which makes me think it is a canid. Perhaps Urocyon? Finished by 2200hrs and headed home.

Jan 15 0700 hrs - out checking traps on MC. It's overcast and raining off and on. It was raining @ 0600hrs this am.





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Jan 15 (cont). Results on transect east of RC:

St	#	Spp	Wt	Sex	Age	Brdg
1	Adult TAD	N. fuscipes			3AD	
2	1979	P. californicus	RECAP			
3	03400	P. boylii		♀	M	lactating
New	5	01040	Microtus	30	♂	m TAD.

Picked up these traps (transect east of RC) as I checked them.

Finished checking traps by 0945 hrs. It didn't rain while checking traps, but it is still overcast.

Summary of results on MC:	14 (PM)	15 (am)	# individuals
P. californicus	5	6	9
P. boylii	2	7 (6 new)	9
P. truei	7	8	10
R. megalotis	0	1	1
TOTAL	14	22	29

Returned home to wash clothes & work on paper work. It stayed mostly cloudy today, although the sun did shine a few times.

Reset RC drift fence traps from 1515 to 1545 hrs and MC traps from 1600 to 1700 hrs. By sunset ~~the~~ skies cleared.

2100 hrs - out checking traps on MC. It's clear, calm, & cool (low 40's).

I checked all traps and 17 stations had at least one trap rolled. No tracks evident anywhere. Finished by 2215 hrs

Jan 16 0700 hrs - out checking traps on MC. It's mostly clear this am, with dark clouds in the western horizon. Temp in 40's. I picked up and cleaned all traps on MC as I checked them. On the drift fence east of MC I found a skunk ~~trap~~ scat on top of one of the traps. So, it must be a skunk that is turning traps. Finished MC by 0900 hrs and RC by 0940 hrs. All drift fence passageways were left open.



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Jan 16 (cont.) Summary of trap results.	15 (PM)		16 (am)	# individuals
	<u>P. californicus</u>	5	4 (2 new)	7
	<u>P. boylii</u>	2	3	3
	<u>P. truei</u>	7	6	9
	TOTAL	14	13	19

Returned to lab with 2 new P. californicus from MC and collected tissues. The younger one #1158 went under the metaphase band. I didn't release the two at their capture points until 1300hrs, amidst a constant drizzle. Headed home for Berkeley after this.

Jan 21 Returned to Hastings today around 1400hrs. Skies are clear and it's quite warm (60's). It apparently rained heavily while I was gone - many wash-out gullies on dirt roads. Also, Finch Creek (borders Carmel Valley Rd.) is finally running again. Set traps on RC drift fences from 1515 to 1600hrs. Put traps every 5m on drift fence west of Grid RC. Set traps on MC drift fences from 1615 to 1700hrs. The fence west of MC has some gaps between the fence bottom and the soil at the south end. Spread some dirt out to try and cover these. I found some fresh S. scirpa sign near (within 5m) the MC west fence. The sun is setting now around 1715hrs, and it is not dark until ~1800hrs.

Jan 22. 0730hrs - Out checking drift fences. It's clear, calm, low 40's. Light frost in meadows. Caught a new P. californicus and lactating P. californicus on RC drift fences (see spp Acct). Returned to lab around 0900hrs to collect tissues from new animal.



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Jan 22 (cont). Note that on the drift fence west of RC I caught 6 animals going ~~out~~<sup>in</sup> (6/11 trap success), and 8 animals going out (8/11 trap success) - total of 14/22, nearly 64% trap success. I should add more traps to this fence, soon. Spent the rest of the morning cleaning traps from last week. Set traps on grid WR from 1400 to 1545 hrs. The top half of the grid (only) has covers for traps. Reset RC drift fences from 1550 to 1615 hrs. Released #1160 at its capture site in good shape. Finished resetting MC drift fence traps by 1645 hrs. Today was a gorgeous day - clear, calm, upper 60's.

2130 hrs - out checking traps on drift fence west of RC (due to lactating *P. californicus* caught this m.) It's clear, calm, moon (< 1/4 full) is just setting in the east, lower 40's. Finished by 2145 hrs.

Jan 23 0700 hrs - out checking traps. It's clear, calm, and cool (upper 30's). Starting checking grid WR by 0830 and finished by 1030 hrs. Collected tissues from animals on the grid, after checking all traps. So, finally finished and headed to lab at 1135 hrs.

Summary of results on Grid WR: *P. californicus*: 11 captures (4 new)

*P. boylii* : 3 " (2 new)

*P. truei* : 9 " (7 new)

*N. fuscipes* : 6 " (5 new)

*S. townsendii* : 1 mortality

TOTAL : 30 captures (18 new)

Today was another gorgeous day - clear, calm, low 70's. I reset traps on Grid WR from 1530 to 1630 hrs. I set 4 Townsaw traps around rows 13-15 to try and catch whatever turned traps last night.



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Jan 23 (cont). Finished resetting RC drift fence traps by 1700hrs, and MC drift fence traps by 1720hrs.

2230hrs - out checking traps on west RC drift fence. It's clear, calm, temp in mid 40's. Caught 2 P. californicus. Finished by 2250hrs.

Jan 24 0700hrs - out checking traps on drift fences. It's clear, calm, and warmer than yesterday (upper 40's). Started checking Grid WR by 0815hrs, finishing by 1000hrs. Returned to lab with new P. californicus (#1170) to collect tissues.

Summary of Results on WR: P. californicus : 7 captures (1 new)

P. boylii : 3 captures (1 new)

P. truei : 11 captures (5 new)

N. fuscipes : 7 captures (2 new)

Perognathus : 1 capture

TOTAL : 29 captures (9 new).

Spent the afternoon working on electrophoresis data. Reset traps on WR from 1500 to 1600hrs. Released #1170 in good shape.

Reset RC ~~to~~ drift fence traps from 1610 to 1640hrs. I added 6 more holding Shermans to the west drift fence between stations W-6 and W-11. I put our trap between existing traps, alternating between "in" & "out" sides. Lastly I reset MC drift fence traps and set the top 2 rows of traps, western 10 stations, to collect data on ~~the~~ female reproduction. Today was another gorgeous day - clear, calm, low 70's.

2150hrs - out checking traps set on grid MC. It's clear, calm, moon is  $< \frac{1}{2}$  full, setting in the west. For sake of time, I'm only going to record captures of P. californicus.



1943 ♀♀ - RED

1104 - GREEN

1976 - ORANGE

## Hastings Reservation, Monterey Co., Calif.

Jan 24 (cont). Results on GRID MC:

St	#	SP.	WT.	Sex	Age	Brdg/	Green barely visible in ears and behind ears
10,6	1158	<u>P. californicus</u>	15	♂	Imm	TND.	
✓ 10,9	1104	"	32	♀	M	Definitely Paras. Imperforate.	Green powder still visible on skin.
✓ 9,13	1943	"	45	♀	M	Lactating.	Dusted w/ RED Powder
✓ 9,13	1156	"	18	♂	Imm	TND.	Red Powder visible in ears
✓ 9,10	1971	"	37	♂	M	Scrotal.	Green on ears, around mouth

Finished by 2225 hrs and headed home.

Jan 25 0650 hrs - out checking traps. It's clear, calm, upper 40's (balmy)

Results on GRID MC:

St	#	SP.	WT	Sex	Age	Brdg
10,6	1128	<u>P. californicus</u>	27.5g	♂	SAD	TND.

9,13 1141 " 38 ♂ M scrotal. Covered w/ RED powder

9,13 1943 " RECAP.

9,10 1104 P. californicus. "

(~20 stations)  
Started checking traps on Grid WR by 0830 hrs. Many traps ~~have~~ had been turned over, pissed on, and dragged away 1m or so. I think N. fuscipes is responsible for many, but not all. <sup>One</sup> trap was wedged 30cm above the ground between 2 logs. Thought I should set more Tomahawks and perhaps a large live-trap. Finished checking traps by 1000 hrs and returned home.

Summary of capture results on WR: P. californicus : 7 captures

P. boylii : 5 " (2 new)

P. truei : 12 " (2 new)

N. fuscipes : 3 " (1 new)

Perognathus : 1 "

TOTAL : 28 captures (5 new)

Spent most of the day working on electrophoresis data.

Reset Grid WR from 1530 to 1415 hrs. I added 4 more National traps for Neotoma, and 1 squirrel-sized National trap baited with tuna fish.



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Jan 25 (cont). Reset EC drift fence traps from 1620 to 1645 hrs, and MC drift fence & 2 rows on the grid from 1650 to 1720 hrs. Today was another gorgeous day - clear, calm, low 70's.

2200 hrs - out checking traps on MC. It's clear, calm, low 50's. The moon is  $\frac{1}{2}$  full and about 1:30 in the west sky - quite bright.

Results on MC:

St.	#	SPP.	WT	Sex	Age	Body
9,13	1156	<i>P. californicus</i>	RECAP.			Fresh RED powder on limbs, mouth, ears.
9,10	1943	"	RECAP.	Lactating		Redusted w/ RED Powder

Finished by 2230 hrs. Not much activity tonight.

Jan 26. 0700 hrs - calm, few low clouds, upper 40's. Out checking drift fence traps. Results on MC traps:

St.	#	SPP	WT	Sex	Age	Body
9,7	1104	<i>P. californicus</i>	RECAP.			Close to perforate.
10,6	1128	"	"	"		
9,13	1943	"	"	"		Lactating

9,10 1971 " " " - Escaped into same hole used by #1943 above station.

Started checking grid WR by 0830 hrs. Fewer traps were turned over this morning - perhaps the extra *Neotoma* traps helped. Finished by 1000 hrs and returned to lab # with #1175 to collect tissues. Summary of results on grid WR:

*P. californicus* : 12 captures (1 new)

*P. boylii* : 1 "

*P. truei* : 13 " (1 new)

*N. fuscipes* : 3 " (2 new)

*S. townsendii* : 1 "

*Perognathus* : 2 "

TOTAL : 32 captures.

Great results this am, only failed to catch 3 marked *P. californicus* on the grid.



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Jan 26 (cont) Today was overcast (thin, high layer of clouds) but warm.

I reset traps on WR from 1530 to 1620 hrs and released # 1175 in good shape. Reset PC drift fence, MC drift fence and MC grid (2 rows only) from 1630 to 1720 hrs.

2200 hrs - out checking traps on MC. It's mostly clear and warm.

Moon is  $> \frac{1}{2}$  full, about  $45^\circ$  from west horizon. Results on MC:

St.	#	Spp.	Wt	Sex	Age	Tags.
10,10	1158	<i>P. californicus</i>	RECAP			

10,11	1156	" "		"		FRESH RED powder covering body.
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9,13	1943	" "		"		Lactating.
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9,9	1971	" "		"		Old. Mgreen visible in ears.
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Finished by 2230 hrs.

Jan 27 0630 - out checking traps on MC. I'm going to close all traps, and leave drift fence passageways open. It's clear, calm, upper 40s. Results on MC traps:

St.	#	Spp.	Wt	Sex	Age	Tags.
10,9	1971	<i>P. californicus</i>	RECAP			

Only capture on MC this am. Closed out traps as I checked them this am, and I left drift fence passageways open. Started checking grid WR by 0830. Finished checking and picking up all traps by 1100 hrs. Summary of results on WR:

*P. californicus* : 8 captures

*P. boylii* : 3 "

*P. tenuis* : 13 "

*N. fuscipes* : 7 " (1 new)

*Perognathus* : 2 "

TOTAL : 33 captures

Returned to lab to stuff *E. mogadotis* mortality. Packed up and left for Beyerhelf around 1300 hrs.

1943 ♀♀ - RED - 1141 ♂  
1104 " - GREEN - 1971 ♂  
1976 " ORANGE - 1023 ♂  
med blood

RC - 1123 ♀♀ - green 1967 ♂♂  
1154 ♀♀ - ORANGE



RIBBLE, D.O.  
1988

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Hastings Reservation, Monterey Co., Calif.

Feb. 1 Arrived back down around 1330hrs. It is cloudy and cool (40's). Marco is down this week for radio-telemetry work. We reset RC drift fence traps, and a transect of 5 stations (2 traps per) west of the grid. We set a total of 28 traps on the fence west of RC. Finished this by 1530hrs. From 1545 to 1615 hrs we reset MC drift fence traps and all 4 top rows on the grid (rows 7-10). We set all these traps for telemetry purposes.

2115hrs - out checking traps on RC west drift fence. Partly cloudy, moon is full.

Results on transect west of RC

St	No.	SPR	WT	Sex	Age	Brdg	
2	1123	<u>P. californicus</u>	46	♀	M	Alapant, not lactating	Dusted <sup>green</sup> } would have collared these, but we forgot metamere.
5	1967	" "	35	♂	M	TAD (close)	

22.15 hrs MC

Station 9.9 no 1971 ♂ m/t/d P. californicus 38g MC

9.13 1943 ♀ m/loc P. californicus 45.5 MC red dusted

9.18 1129 ♂ m/t/d 4 40.5 MC

Finished by 2030hrs.

Feb 2. 0700hrs - out checking traps. It's partly cloudy, cool (low 40's).

The full moon has just set in the west. Results on grid MC:

St.	No	SPR.	WT.	Sex	Age	Brdg.
9.7	1158	<u>P. calif</u>	19	♂	imm	tud

9.13 1943 P. calif no ART

N 1015 1420 P. franci 17 ♀ early red m

9.17 1129 P. calif no ART

Finished checking RC traps by 0815hrs. Didn't catch any

P. californicus on the ~~dr~~ transect west of grid RC this am.

We did catch P. bonfii, but didn't record them. Returned to

lab to prepare P. bonfii mortality from the ~~grid~~ RC drift fence.



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Feb 2 (cont) From ~~13~~ 1445 to 1530hrs we reset RC drift fences <sup>transect west of grid</sup> and all the traps on the grid. We want to see if there is a lactating female on the grid, and if not we will monitor the grid for the next five nights. Reset MC drift fences and the top 4 rows on the grid from 1600 to 1630hrs. Today was partly cloudy and cool (low 50's).

2120hrs - out checking traps on MC. It's, clear, cool, and moon ~~is~~ is

full - very bright. Results on MC traps:

St	No	Spp	Wt	Sex	Age	Brdg
7,7		<u>Urocyon</u> <del>Vulpes</del> <del>luteus</del>				

! Caught in trap baited with 2 carcasses. This is probably the character who has been turning traps, so we will release him on the Carmel Valley Rd. He(?) appears younger, perhaps a subadult, based on facial features and quality of pelage. Beautiful animal!

St	No	Spp	Wt	Sex	Age	Brdg
9,7	1158	<u>P. calif</u>	19.5	♂	imm	Ind.

We released the red fox 2.7 mi N by the Carmel Valley Rd of Hastings around 2230hrs. We returned to check traps on RC and transect west of RC. We finished around 2340hrs and loaded home.

Feb 3. 0700hrs - out checking traps on MC. It's clear, calm, and cold (low 30's)

Results on MC traps:

St	No	Spp	Sex	Age	Brdg
9,13	1943	<u>P. calif</u>	NR CAP		lost

Transect west of Grid RC.

St	No	Spp	Wt	Sex	Age	Brdg
2,5	1123	<u>P. californicus</u> & <u>M. 47g</u>				Pregnant. Radio-collared with cable tie collar, Ch #5.

We finished checking traps by 0900hrs and loaded back to lab.

Summary of results on RC:

	2 (PM)	3 (AM)	# ind
<u>P. californicus</u>	4 captures	3 captures	6
<u>P. boylii</u>	17 " (3 new)	13 " (3 new)	24
<u>N. fuscipes</u>	2 "	2 "	4
<u>T. megalotis</u>	0	2 " (1 new)	2
<u>M. ciurus</u>	1 "	1 "	2
<u>Peromyscus</u>	3 "	3 "	3
TOTAL	27 "	24 "	46 ind



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Feb 3 (cont) Today was clear, breezy, temp in ~~low~~ 50's. Around 1530 hrs Marco radio-located # 1123 (see spp acct) and we put the traps from the transect west of RC near the nest. Reset drift fence traps from RC and grid RC from 1545 to 1615 hrs. Reset MC drift fence traps and grid traps on MC from 1630 to 1700 hrs. Hopefully with the Urocyon gone we will have better luck on MC. 2030 hrs - out on RC to do radio tracking and check traps. On the east side of the nest site caught # 1914 (or 1941?), ♂, mature, scrotal, 41g. There was no sign of any powder. On the west side of the nest site caught # 1976 ♂ covered with GREEN Powder! Marco radio-located this male, Ch # 3. Since the male was caught, we collected all traps from the west of RC. I checked the drift fence west of RC while Marco tried to locate the ♀, no luck. 2200 hrs we went to MC to check the grid traps.

St. 8, 17. #1123 P. californicus ♂ Mat. Scrotal  
9, 8 #1158 " " Recap.

4 trap stations had been rolled on this grid. Perhaps another Urocyon? From 2230 to 2315 hrs we checked traps on Grid RC. Similar results to last night. Marco still couldn't find # 1123. Hopefully she will appear tomorrow. Headed home 2330 hrs.

Feb 4 0800 hrs - out checking traps on MC. It's clear, calm, and cold. We got up a little late this am. No new P. californicus on grid MC this am. On the drift fence west of RC we caught # 1123 and her radio appeared fine. Finished checking all traps by 0930 hrs and returned to lab to bleed new P. californicus and stuff mortalities.



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Feb 4 (cont)

Summary of results on RC:			
	3 (Pm)	4 (Am)	# ind
<u>P. californicus</u>	4 captures	4 captures	6 ind
<u>P. boylii</u>	17 " (1 new)	16 " (1 new)	25 "
<u>N. fuscipes</u>	2 "	2 "	3 "
<u>P. maniculatus</u>	—	1 " (1 new)	1
<u>R. megalotis</u>	1 (1 new)	1 "	2
<u>Perognathus</u>	2 "	2 "	3
<u>Microtus</u>	1 "	1 "	2
<u>Sorex</u>	1 mortality	—	1
TOTALS	28	27	43 ind.

Today was sunny, clear, very nice (upper 50's). From 1545 to 1615 we reset all traps on RC, released #1179 in good shape, and Marco worked on radio re-locations (see spp acct). We reset MC drift fence traps and closed/pick-uped all grid traps on MC from 1630 to 1700hrs.

2015hr - out to do telemetry on RC. It's clear, cold, moon wasn't seen yet.

See spp acct data for results. At 2030hrs the moon (< full) rose.

At 2110hrs I checked the drift fence east of RC. From 2130 to 2230 we checked the traps on grid RC, then returned to radio-telemetry work. Headed home around 2300hrs.

Feb 5

0700hrs - out checking traps on MC drift fences. It's clear, calm, and cold (low 30's). The moon is in the western horizon.

Finished checking traps on RC by 0830. Before returning to lab to

bleed 2 new P. californicus, we searched for the 2 radio-animals (see spp acct)

Summary of captures on RC:			
	4 (Pm)	5 (Am)	# ind.
<u>P. californicus</u>	5 captures	7 capt (1 new)	9
<u>P. boylii</u>	13 " (1 new)	14 " (1 new)	21
<u>Microtus</u>	1 " (1 new)	1 "	2
<u>N. fuscipes</u>	2 "	2 "	4
<u>R. megalotis</u>	3 " (1 new)	1 "	4
<u>Perognathus</u>	3 "	2 "	4
TOTAL	27	27	44 ind.





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Feb. 5 (cont) Reset RC traps early today (1500-1600hrs) to make it back by dark for telemetry. Reset MC drift fence traps from 1615 to 1630hrs. Today was another warm, clear day.

1800hrs - out on RC for telemetry work. It isn't dark yet, can work w/out flashlight. But it won't be long - - - - dark by 1830hrs.

Heard first traps close shut around 1830hrs. (See Telemetry Data for results.)

At 2010 hrs I headed in for some tea - it's cold tonight.

2120hrs - back out on the grid for telemetry and to check traps. The moon is just beginning to rise. At 2140hrs I checked the drift fence west of RC. At 2215 I started to check grid traps. I was interrupted by Pat Kelly's company, so I didn't finish until 2350 hrs and headed home.

Feb 6 0700hrs - out checking traps on MC. Clear, calm, and cold. Nothing captured on MC drift fences. Finished checking traps on RC at 0840hrs

and checked for radio-animals before returning to lab to bleed 2

New <u>P. californicus</u>	Summary of results:		# ind
	5 (PM)	6 (AM)	
<u>P. californicus</u>	4 (1 new)	5 (1 new)	9
<u>P. boylii</u>	19 (1 new)	15	25
<u>Microtus</u>	1 (1 new)	-	1
<u>Perognathus</u>	2	3	3
<u>N. fuscipes</u>	1	1	2
TOTAL	27	24	39 ind.

Today was sunny, clear, and warm. Spent the afternoon working on paperwork. I reset all traps on RC and released 2 P. californicus bled from 1530 to 1630hrs. I also set 6 additional traps (2 at #1123 nest site; 2 @ 4,5; and 2 @ 4,6) to try and catch #1976 ♂. Reset MC drift fence traps around 1700hrs.

2130 hrs - out checking traps on RC. It's clear, calm, and cold. Moon hasn't risen yet. Moon rose around 2230hrs.



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Feb 6 Finished checking all traps by 2300hrs and radio-tracked #1123 (see Spp Act). Headed home by 2315hrs.

Feb 7 0700hrs - out checking traps on MC drift fences. It's clear, calm, warmer than previous mornings. Had 2 captures on MC drift fence. Picked up all folding Shermans and cleaned out all non-folding Shermans on RC as I checked traps. Finished by 0915hrs and headed home. Summary of results on RC:

	6 (Pm)	7 (Am)	# ind.
<u>P. californicus</u>	6	5	9
<u>P. boylii</u>	18	16 (2 new)	26
<u>Microtus</u>	1	1 (new)	2
<u>N. fuscipes</u>	0	2	2
<u>E. megalotis</u>	1	1	2
<u>Perognathus</u>	2	2	3
TOTAL	28	27	44

Spent the rest of the morning and afternoon taking care of paperwork and cleaning traps. Reset RC drift fence traps and traps west of RC from 1530 to 1600hrs. I added 4 more <sup>trap</sup> stations to the transect west of RC @ 1,5; 2,5; 5,6 (along the stream); and 4,6. I also set station 5,8 on the grid. All of these traps are in attempt to catch #1123; 1967. From 1615 to 1700hrs I reset trap on MC ~~fence~~ <sup>drift</sup> fences plus 14 stations in the SW corner of the grid to try and catch 1976 and 1023. 8 of these stations are ~10 m away from the edge of the grid (2 west, and 6 south). Today was another gorgeous day - high in the 60's

2130hrs - out checking traps on MC. It's clear, calm, low 50's, no moon yet.

MC results (P. californicus Only)

St. # Wt Sex Age Bldg.

11,5 1976 44.5 ♀ M perf, parrus, post-lactates, PULSED ORANGE

W 11,5 1184 30 ♀ SKD nullip. No sign of any powder. Re-fined to



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MC Results Cont.

Feb 7 (cont)

St	#	Wt	Sex	Age	Brdg
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11,6	1023	40	♂	IM	Scrotal. - Returned to lab to collect tissues
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11,8	1158	20	♂	Im	TWD. Front Green? in ears
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Transect West of Grid RC

1,5 1914 RECAP ♂ IM scrotal. Covered w/ fresh RED Powder. Poly splashy.

I finished checking traps by 2300hrs, got a radio location on #1123 at her nest, and headed home

Feb 8

0700hrs - out checking traps on MC. It's clear, calm, low 40s.

The moon is just over 1/2 full and almost direct about 70° in west

Results of MC traps (*P. californicus* only):

St.	#	Wt.	Sex	Age	Brdg
-----	---	-----	-----	-----	------

10,4	1970	RECAP			not lactating
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11,6	1120	30.5	♂	SD	TWD.
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11,7	1158	RECAP			
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Results on transect west of Grid RC.

3,5,6	1914	RECAP			
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4,5,7 (nest)	1123	43	♀	IM	lactating? Bred 4 got a drop from heat.	Removed her collar? Redusked w/ Green Powder
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Finished checking all traps by 0940hrs and returned to lab to bleed animals caught last night on grid MC. Released them at their point of capture by 1000hrs in good shape. Spent most of the day working on a paper.

1515hrs - out on RC ~~trying~~ trying to radio-locate #1967. I searched for ~45 mins with no luck. I searched ~100m downstream from the west drift fence. From 1600 to 1630 I reset all drift fence traps and the traps west of the grid (baited these with peanut butter). Found a dead *P. boylii* in a pit fall can on the west fence. Returned with it for a study skin. Reset MC drift fences and grid traps from 1645 to 1515hrs.





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Feb 8 (cont) 2120hrs out checking traps on MC. It's clear, low 50's, no moon.

Results on Grid MC (*P. californicus* only)

St.	#	Wt.	Sex	Age	Notes
11,4	1023	RECAP			Covered with fresh ORANGE powder

10,8	1158	RECAP			
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11,9	1104	37	♀	M	imp, <u>parous</u> ?
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Results on transect west of RC.

3,5,6	1917	RECAP			
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Didn't check west Redrift fence traps this PM. Headed home about 2230hrs

Feb 9 0700hrs - out checking traps on MC. It's clear and cool (upper 40's).

Results on MC traps (*P. californicus* only)

St.	#	Wt.	Sex	Age	Notes
11,4	1184	RECAP			Eyes fine, no sign of any powder.

11,5	1976	RECAP			Definite lactating. REDUSTED ORANGE.
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11,6	1111	32g ♂		Early Mat, Serot.	No sign of any powder. Escaped downhill.
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10,4	1128	31g ♂		<sup>SAD</sup> Early Mat, TND.	" " "
------	------	-------	--	--------------------------------	-------

11,8	1158	RECAP			
------	------	-------	--	--	--

I picked up and/or cleaned all traps on MC as I checked them.

There were no captures on MC drift fences this am.

Results on RC traps (*P. californicus* only).

St.	#	Wt.	Sex	Age	Notes
4,5,7	1123	RECAP			Barely lactating

5,8	1182	"			Covered with Green Powder.
-----	------	---	--	--	----------------------------

Finished checking traps by 0845hrs and returned home to work on paper. Today was another gorgeous day - high in the upper 60's.

I saw a Sceloporus occidentalis active around the cabin today - first one seen since late October.

1530hrs - this afternoon I searched for # 1967 upstream from its previous range to the fence (~.25mi). No signal detected.

Reset RC drift fence traps and transect west of RC from 1105 to 1645.



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Feb 9 (cont)

Found a dead *S. townsendi* in a pit fall can at W-4 (cont). Probably missed it this am. Reset MC drift fence traps from 1645 to 1510 hrs. 2200 hrs - out to check traps west of grid PC. It's clear, calm, low 50's - The moon hasn't risen yet. Summary of results (*P. californicus* only):

St.	#	WT	Sex	Age	Notes
NO captures of <i>P. californicus</i> .					

Headed home by 2220 hrs

Feb 10

0700 hrs - out checking traps on MC. It's clear, calm, upper 40's.

Results on transect west of PC (*P. californicus* only).

St.	#	WT	Sex	Age	Notes
3.5.5	1914	RECAP.	♂	M.	scrotal. RED powder visible on ears
(next side).					
4.5.7	1182	RECAP.			

I picked up or cleaned out all traps this am and left all drift fence passageways open. I finished checking all traps by 0840 hrs and returned to lab to collect tissues from #1185 and prepare *Sorex* mortality. Left for Berkeley around 1030 hrs, releasing #1185 in good shape at its capture site on my way out.

Feb 11

Arrived back at Hastings around 1330 hrs today. It's clear, breezy, and warm (low 70's). Spring green-up is continuing with Buckeyes leafing out and snowberry leafing out. Madrone Canyon is looking very lush. Perhaps *P. californicus* will be caught lower on the grid toward the creek bottom.

Set traps on Grid MC and drift fences from 1500 to 1645 hrs. Reset PC drift fence traps from 1700 to 1720 hrs.

2100 hrs - out checking traps on MC. It's clear, calm, no moon (new moon is tomorrow), low 50's. I finished checking traps by 2150 hrs and returned to lab to collect tissues from #1186. I will release her in the AM while checking traps.



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Feb 17 0700hrs - Out checking traps on MC. It's clear, calm, low 40's

Finished checking all traps by 0930hrs and returned to lab to mix powders.

Summary of Results on MC:	16 (am)	17 (am)	# ind
<u>P. californicus</u>	2 (1 new)	3	5
<u>P. truei</u>	1	7	7
<u>P. boylii</u>	7 (2 new)	13 (3 new)	14
<u>Perognathus</u>	0	1	1
TOTAL	10 (3 new)	24 (3 new)	27 ind

Today was clear, breezy and warm (upper 60's). From 1530 to 1600hrs I reset EC drift fences, plus I set 8 additional stations (5 stations west and 3 stations east of grid EC) to assess reproductive condition of breeding females. From 1615 to 1700hrs I reset grid traps and drift fence traps on grid MC. It's not getting dark now until after 1800hrs.

2115hrs - out checking traps on MC. It's, clear, calm, and cool (low 50's).

New moon tonight. Finished checking MC by 2210hrs and headed to EC

Results on transect east of EC (P. californicus only)

St. 438  
#1 1979 P. californicus - ♀ M, ~~parous~~ parous, perf. Dusted w/ RED powder.  
#3  
(9.18) 1955 " ♂ M, scrotal. 39.5g

Results west of grid EC:

N 437 1187 " ♂, M, TND. 33g. Returned to Lab for tissues. White tail tip  
N 356 1182 " ♂ Imm, TND. 19.5 Red barely visible behind ears.  
2,5 1123 " ♀ M, perf, parous. 38g. Red dusted w/ GREEN powder

Finished by 2300hrs and headed home.

Feb 18 0700hrs - Out checking traps on MC. It's clear, calm, upper 40's

Results on transect west of grid EC:

St. 5.8  
1182 P. californicus ♂ Imm, TND. 23g. Green powder visible in ears.

No P. californicus east of EC this am. Headed back to lab by 0930hrs to bleed animals captured last night.



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Feb 18 (cont)	Summary of results on grid MC:	17 (Pm)	18 (Am)	# ind
	<i>P. californicus</i>	2	4	5
	<i>P. boylii</i>	8	12 (2 new)	14
	<i>P. truei</i>	4	6	7
	<i>N. fuscipes</i>	0	1	1
	<i>Perognathus</i>	0	1	1
	TOTAL	14	24 (2 new)	28

I released the animals I led this am at their capture sites before noon in good shape. Today was cooler (mid 60s) due to a strong breeze from the west. From 1600 to 1645 hrs I reset traps on grid RC & RC drift fences. I picked up the 3 trap stations east of RC and added 3 stations to the transect west of RC at (approximately) stations 1,5; 2,5.5, and 1,5.5. I also set 2 stations west of the west drift fence, ~~at 1,6~~, approx 5 and 10 m downstream, respectively. Lastly, I set the following stations on GRID RC = 6,11; 6,10; 5,10; 5,11; and 5,9. Found a dead *P. boylii* (#0230) in a trap at 5,11 (see spp acct.) Reset traps on MC from 1700 to 1745 hrs. I added 2 stations at 11,5 and 11,6. Also, I set the large carnivore live-trap near station 7,12 - a carnivore (probably *Urocyon*) has been turning and unloading on some traps in this region.

2115 hrs - out checking traps on MC. It's clear, calm, low 58s.

Finished checking MC traps by 2200 hrs and headed to RC.

Results on RC traps (*P. californicus* only)

St.	No.	Spp.	Sex	Age	Body	Wt.	Not particularly fresh
5,8	1182	<i>P. californicus</i>	♂	Im	YND	23	Green in ears, mouth, shoulder.
N	255	1192	"	♂	Im	20g.	Red powder visible in ears. Returned to lab.
	2,5	1187	"	RECAP			

Headed home by 2300 hrs.





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Feb 19. 0700hrs - out checking traps on MC. It's clear, calm, upper 40's

Results on RC grid traps (*P. californicus* only).

st.

4.57 1914 *P. californicus* 41.5g ♂ M scrotal.

Finished checking all traps by 0915 hrs and returned to lab to band  
2 new *P. californicus* and stuff *P. boylii* mortality.

Summary of results on grid MC:	18 (pm)		19 (am)		# ind.
	<i>P. californicus</i>	4	7 (new)		8
	<i>P. boylii</i>	4	10 (1 new)		13
	<i>P. truei</i>	5	7		9
	TOTAL	13	24 (2 new)		30

I returned the 2 new animals back this am to their capture sites  
before noon in good condition. Today was mostly calm and  
warmer than yesterday (upper 60's).

From 1600 to 1630 hrs I reset traps on RC. I moved around  
some of the traps set west of RC, but localities are still similar.  
Reset MC traps from 1645 to 1730 hrs. Caught #01000 *P. boylii*  
in a trap at station B, B. Released her in good shape.

2130 hrs - out checking traps on MC. It's cool, calm, lower 50's. No moon.

Finished by 2220 hrs and moved on to check RC.

Results on RC traps (*P. californicus* only):

st

5.0 1182 *P. californicus* RC trap

35.16 1180 " "

2.55 1192 " "

2.5 1187 " " ♂ M TD. Ears moist, limbs have green powder.

within 1180 " ". Released in on drift fence

Headed home by 2330 hrs.



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Feb 20 0700hrs - out checking traps on MC. It's clear, calm, and cool.

Results on RC traps (*P. californicus* only):

5<sup>+</sup>  
2.5.5 1188 *P. californicus* ZELAP

5.11 1152 " 37g. ♂ M, scrotal (barely).

Finished checking traps by 0915 hrs and returned to lab to stuff *Sorex* mortality.

Results on Grid MC:	19 (PM)	20 (AM)	# ind
<i>P. californicus</i>	2	4	5
<i>P. boylii</i>	5	11	11
<i>P. truei</i>	6	8	10
<i>N. ruscipes</i>	1 (new)	1	2
<i>Perognathus</i>	2	1	2
TOTAL	16	25	30

There were a few high clouds today, but it was still very warm. Spent all afternoon working on maternity data. I reset only the drift fence traps on Grid RC, and picked up all the extra Shermans around 1630hrs. Reset grid & drift fence traps on MC from 1700 to 1745hrs. 2215hrs - out checking traps on MC. It's clear, calm, no moon (moon was ~1/8 full and set around 1930h). Finished checking traps by 2300hrs and headed home.

Feb 21 0645h - out checking traps on RC drift fences first this m. It's clear, and cool (low 50s). I will leave drift fence passageways open.

Finished checking & picking up traps on MC by 0930h and returned to lab to bleed.

Summary of results on MC.	20 (PM)	21 (AM)	# ind
<i>P. californicus</i>	3	4	5
<i>P. boylii</i>	5	6	8
<i>P. truei</i>	4	7 (new)	8
<i>Perognathus</i>	1	1	1
TOTAL	13	18	22.

I released #1194 back at its capture site on my way back to Berkeley around 1200h.



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March 1 Arrived back at Hastings today around 1300hrs. Skies are cloudy, it's cool (low 50's), and it has obviously rained over the past few days. I set out 5 baited traps on Grid WR from 1430 to 1700hrs. ~~See~~ Due to the cool & damp weather I put a wadded up paper towel in <sup>all</sup> ~~most~~ traps. The <sup>traps at the</sup> top half of the grid are mostly covered with wooden slats, but there aren't any slats at stations on the bottom half. I also put out 4 Neotoma trapboxes (2 traps per box) at stations 1,1; 13,10; 14,12; and 15,14. From 1700 to 1810h I reset the drift fences on grid RC and MC. On the drift fence west of RC I only set the traps every 5m. Finished just in front of darkness. It sprinkled lightly through the evening.

March 2. 0640h - Out checking drift fence traps on MC. It's mostly clear, temp ~~low~~ upper 40's. Started checking Grid WR traps by 0800h. Caught 2 new P. californicus on the grid and bled them along with #1929 from RC drift fence (see Sp. Acct) at the truck and released them at their capture sites in good shape. Returned to lab around 1030h to spin down blood.

Summary of results on Grid WR:	<u>P. californicus</u>	8	captures (2 new)
	<u>P. truei</u>	9	" (1 new)
	<u>P. boylii</u>	2	" (2 new)
	<u>Perognathus</u>	1	"
	<u>N. fuscipes</u>	4	" (1 new)
	TOTAL	24	" (6 new)

Spent the rest of the am chopping wood. Today was clear and sunny, high in the low 60's. Talked to J. Griffin, and he said it rained about 1.5 inches the past week while I was gone.



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March 2 (cont). I reset traps on WR from 1530 to 1700 hrs. While resetting traps I cut trails through the poison oak on the bottom half of the grid (tomorrow I'll finish the upper half). Reset RC & MC drift fence traps from 1700 to 1800 hrs.

The moon (full) rose tonight around 1900 hrs - very bright tonight.

March 3 0640h - out checking traps on MC. It's clear, calm, upper 40's. Started checking traps on WR by 0800h. Finished checking traps by 0930h and returned to Cabin. Summary of results on WR:

<u>P. californicus</u>	:	10 captures
<u>P. truei</u>	:	10 captures (1 new)
<u>P. boylii</u>	:	6 "
<u>Perognathus</u>	:	1 "
<u>N. fuscipes</u>	:	3 "
<u>TOTAL</u>	:	30 captures (1 new)

Spent most of today working on electrophoresis data. . . .

Reset WR traps from 1530 to 1700 hrs. Finished cutting trails through poison oak on the upper half of the grid in the process. Reset RC & MC drift fence traps from 1700 to 1800 hrs. Today was mostly clear and warm (low 60's). High thin clouds moved in late in the afternoon. The moon is full tonight, rising about 1945h.

March 4 0635 h - out checking traps on MC. It's clear, calm, upper 40's, heavy dew. Started checking traps on WR by 0800h. Finished by 0930h and returned to lab. Summary of results on WR:

<u>P. californicus</u>	:	8 captures
<u>P. truei</u>	:	7 captures
<u>P. boylii</u>	:	4 " (2 new)
<u>Sorex</u>	:	1 mortality
<u>Perognathus</u>	:	1 capture
<u>N. fuscipes</u>	:	5 " (1 new)
<u>TOTAL</u>	:	21 captures (3 new)

Returned to lab and spent the rest of the AM stuffing Sorex from freezer.





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March 4 (cont) Today was another sunny, warm ~~to~~ day. I reset WR traps from 1545 to 1630 hrs, and RC and MC drift fence traps from 1640 to 1730h. I also set traps on MC at 10,5; 90,4; 11,5; 11,6; and 10,6 in order to catch 1976.

2200h - out checking traps on grid MC. It's clear, calm, moon is overhead (< full) and bright! Results (P. californicus only):

W	9,5	1199	<u>P. californicus</u>	♂	Imm, TWO. 19g.	Orange visible on skin behind ears; elbow. Returned to lab for tissues.
	11,6	1971	"	♂	IM, scrotal. 37.5g	} Caught in same trap! (see spp acct) - tail wound
	11,6	1128	"	♂	IM, TWO. 39g.	

Furried by 2230h and returned home with #1199 (Bleed tomorrow am).

March 5 0635h - out checking traps on MC with Connie Adams. It's clear, calm, low 50's. Results on MC grid P. californicus only):

st.  
No P. californicus caught on grid MC this AM.

Began checking grid WR by 0800. Clipped tails for DNA extractions from 4 individuals, plus had a mortality on the grid (see spp acct).

Furried checking traps by 1025h and returned to lab to process tails, and bleed #1199.

Summary of results on WR: P. californicus : 10 captures (1 mortality)

P. truei : 13 " (2 new)

P. boylii : 5 "

Perognathus : 2 "

N. fuscipes : 3 "

TOTAL : 33 captures (2 new)

Returned #1199 in good shape to its capture side around noon.

Spent the afternoon on laundry, etc. . . . .

This afternoon was mostly clear and warm (mid 60's). I reset traps on WR from 1545 to 1630 hrs, and RC & MC drift fences (including MC grid traps) from 1645 to 1730 hrs.



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March 5 (cont). The fog began to roll in around 1630hrs and settled in very thickly by 1800h.

2300hrs - out checking traps on MC. It's foggy and drizzling lightly. Results:

St. 9,7 1104 *P. californicus* 4lg ♀ in lactating. Dusted with Green Powder.

11,5 1128 " 2ECLAP.

Finished by 2315h and loaded home

March 6 0635h - out checking traps on MC. It's clear, calm, cool (low 40s), and very damp. I will be closing all traps and leaving drift fence passageways open. Results on MC traps:

St. 10, 10 11819 *P. californicus* 2log. ♀ Imm. wollyp

I collected *isopods* for Ted Grosholz as I covered up pit cans.

Started checking Grid WR by 0850h. Collected tail tips from 3 more individuals. Finished checking and picking up all traps by 1045hrs and returned to lab to process tails and get packed up. Summary of results on WR: *P. californicus*: 8 captures

*P. truei* : 13 " (1 new)

*P. boylii* : 4 " (2 new)

*N. fuscipes* : 1 "

TOTAL : 26 captures

Packed up and left Hastings around 1430h.

March 17 Arrived back at Hastings around 1300hrs today. I don't think it rained while I was gone and although dry, things are still greening up. The deciduous oaks (Blue's Valley) are beginning to leaf out. Marco arrived around 1400hrs - he is here to help with radio-telemetry. We set traps on Grid and drift fence MC from 1500 to 1600h, and the same on RC from 1630 to 1730hrs. We set traps on both grids to find out which females are lactating.



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March 17 (cont). Whichever grid we don't do telemetry on, we will trap for 5 days and then trap the grid <sup>where</sup> ~~in which~~ telemetry was done. The sun doesn't set until 1915 hrs and it is dark around 1940 hrs.

2140 hrs - out checking traps on MC. It's clear, calm, no moon, 50%.  
Radio-collared # 1104 (see spp acct)  
Finished by 2315 hrs and headed home. - very tired

March 18 0630 hrs - out checking traps on MC. It's clear, calm, low 50%. No moon is visible. We finished checking MC by 0800 hrs and proceeded to Grid RC. On grid RC we radio-collared 3 animals (see spp acct). Finished checking traps by 1000 hr and returned to lab to bleed 2 new animals captured last night and this am.

Summary of results on GRID MC:	17 (Pm)	18 (Am)	# ind
	7 (1 new)	6	10
<u>P. californicus</u>			
<u>P. boylii</u>	13 (5 new)	11 (2 new)	21
<u>P. truei</u>	4 (1 new)	10 (3 new)	11
<u>N. fuscipes</u>	2	2	3
<u>Perognathus</u>	2	0	2
TOTAL	28 (7 new)	29 (5 new)	47 (12 new)

Summary of results on GRID RC this Am:	<u>P. californicus</u>	12 (1 new)
	<u>P. boylii</u>	23 (5 new)
	<u>N. fuscipes</u>	3 (2 new)
	<u>Perognathus</u>	4
TOTAL		42 (8 new)

Marco returned the new animals to their capture sites after lunch and got radio-locations on all of the collared animals. (see spp acct). We reset all traps on MC from 1630 to 1700 hrs. We moved the traps from stations 6.5, 5, 6, 6 and put them around station 8.5, 7.5 to try and catch



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March 18 (cont). #1104's mate (#1197) or her weaned baby(ies). From 1730 to 1800h we reset RC drift fences and only the traps around station 4,13 to try and catch #1146's mate which we will collar.

2130h - out checking traps on MC. It's clear, calm, no moon, 50's.

Finished checking traps on MC by 2230h and proceeded to Grid RC.

I didn't catch any P. californicus on RC traps, only P. boylii & Microtus (which I didn't record). We concentrated on radio-tracking #1137 & #1152 (see Sp. Scot).

Headed for home @ 2355h - good telemetry tonight!

March 19 0630h - out checking traps on MC. It's clear, calm, low 50's, no moon visible. Finished checking traps on MC by 0800h and proceeded

to check traps on RC. Marco got radio-locations on all 3 animals on RC, but we didn't catch any suspected mates of #1146.

Returned to lab around 0930hrs to stuff P. boylii mortality and collect tissues from 2 new P. californicus.

	18 (PM)	19 (AM)	# ind.
Summary of results on MC:			
<u>P. californicus</u>	6 (cap 1 new)	7 (1 new)	10
<u>P. boylii</u>	5	16 (2 new)	18
<u>P. truei</u>	9	10 (1 new)	13
<u>N. fuscipes</u>	0	1	1
<u>Perognathus</u>	1	2	2
TOTAL	21 (1 new)	36 (1 new)	44 ind

Marco released the <sup>new</sup> animals at their capture locations around 1330h.

Today was sunny, clear, mid 70's - NICE. We reset traps on MC from 1615 to 1650hrs. Caught 3 Eumeces skiltonianus in pit falls. We released them without marking them. We reset RC drift fence ~~from~~ and the traps around station 4,13 (baited with Peanut Butter) from 1700 to 1730hrs.





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March 19 (cont) Marco set out for RC to do telemetry work (see telemetry data sheet)

The moon is  $< \frac{1}{8}$  <sup>full</sup> and set around 2000hrs. It's clear & calm.

2100hrs - linout on grid MC to check traps, then I'll go meet up with

Marco. Finished checking traps by 2220hrs and headed over to meet

Marco on RC. On GRID RC, St 4, 13, I captured # 1146, ♀, lactating. Her

collar was in good shape and I redusted her with PURPLE POWDER

before releasing her. At Station 5, 12, caught # <sup>1152</sup> 1156, ♂ with radio-collar. He had

FRESH ORANGE POWDER on his mouth, ears, and feet. Other results

St  
N 5/4. 1208 *P. californicus* ♀ Imm, nullip. 17g. No sign of any powder. Returned to lab.

5, 15 1944 " " ♂ M scrotal. 41g. No sign of any powder.

Returned home at 2315h (see spp acct for telemetry foul-ups).

March 20 First day of spring! 0630 - out checking traps on MC. It's clear, calm, 50's

We finished checking traps on MC and proceeded to check grid RC.

Results on grid traps (*P. californicus* & only):

St  
4, 13 1146 *P. californicus* lactating. Recapture. Radio in good shape

5, 14 1944 " " Recapture.

Finished checking traps by 0840 and returned to lab to bleed 2 new animals.

Summary of results on GRID MC:	19 (PM)		# ind.
	19 (PM)	18 (AM)	
<i>P. californicus</i>	6	6	9
<i>P. boylii</i>	5 (2 new)	18 (2 new)	22
<i>P. truei</i>	9	9	14
<i>N. fuscipes</i>	0	2 (1 new)	2
<i>Perognathus</i>	2	1	2
TOTAL	22 (2 new)	36 (3 new)	49 ind

The 2 new animals were released in good shape by noon. Today was

another warm & sunny day. We reset traps on MC from 1630 to 1745

hrs and RC from 1730 to 1745 hrs. Marco went out to RC at

1930h, just as he did last night.

1192

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March 20 (cont) 2100h - in out checking traps on MC. It's clear and calm with no moon.

Started checking traps on RC by 2240hrs. Results (P. californicus only):

St #  
4,13 1146 P. californicus ♀. Collar in good shape.

5,14 1142 " ♀. Mature, primus. 385g. Post-lactating. Dusked with Golden Band.

Headed home by 2330h. Marco had a good night of telemetry. (See data sheet).

We also checked traps on the RC west drift fence before heading home.

March 21 0620h - out checking traps on MC. It's clear and calm this am.

Began checking RC around 0800h. Results on RC grid traps (P. californicus only)

St #  
5,13 1192 P. californicus DBLAP

Finished checking traps by 0940 and returned to the lab to bleed 2 new animals.

Skies are now mostly cloudy - cumulus-like clouds moved in from the west this am.

	20 (PM)	21 (AM)	# ind
Summary of results on GRID MC.			
<u>P. californicus</u>	6 captures	10 (1 new)	13
<u>P. boylii</u>	7 "	14 (1 new)	17
<u>P. fuscus</u>	14 (2 new)	10	15
<u>P. maniculatus</u>	1 (1 new)	1	1
<u>Perognathus</u>	0	1	
<u>N. ruficeps</u>	0	2 (1 new)	2
TOTAL	28 (3 new)	38 (3 new)	48

Marco returned the new animals to their capture sites before noon. The morning clouds quickly blew over leaving clear, sunny skies. The temperature

was a bit cooler than previous days (upper 40's). We reset

MC traps from 1620 to 1700h and RC traps from 1710 to 1730h.

# Tonight, Marco is going to collect telemetry data from 2000 to 2300h and I will do the same from 0330h to sunrise. Because

I'm going out so early (late?) I'm not going to check traps tonight on GRID MC. The animals should be fine given

the benevolent weather. The moon is ~1/4 full and sets around 2030h.



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March 22

0320h - out on RC to do telemetry. It's clear, no moon, temp in low 50's.

(See Data sheet for summary.) By 0500h beginning to get light. 0530h - first bird songs begin. At 0600h it was light enough to begin checking traps.

At 0700h I met up with Marco and we checked and picked up traps on MC, finishing by 0900h.

Summary of results on MC: P. californicus 7 captures

P. boylii 14 captures (3 new) (1 mortality)

P. truei 13 " (2 new)

P. maniculatus 1 "

Perognathus 3 "

W. luscipes 1 "

TOTAL 40 captures (5 new)

I returned to the lab to stuff 2 mortalities. Note that 19 animals were captured on the RC west drift fence (68% trap success). We should add 10 more traps to this fence this afternoon. Today was clear and warm, upper 60's. From 1630 to 1700h we reset MC drift fence traps and traps on the grid to try and catch #1104 (st's 9, 10; 9, 8; 9, 7; 9, 6; and 4 traps around 9.5, 7). We haven't received a signal from her since Friday night and haven't caught her since Friday AM. We reset RC traps drift fence traps from 1710 to 1730h, adding 10 more traps to the west drift fence. All grid traps ~~are~~ on RC were closed - we've given up on catching #1146's mate.

At 1900h Marco went out to do telemetry on RC, I'll be replacing him later.

2200h - out on RC for telemetry. It's clear, calm, moon is  $\frac{1}{4}$  and setting behind the hills. Finished by 2330h and headed home.

March 23

0700h - out checking traps on MC. It's calm, partly cloudy and cool (low 50's).

On grid MC we didn't catch #1104 in any of the set traps. We did catch her mate #1971 at a trap set at 9, 7.5



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March 23 (cont) We finished checking RC drift fence traps by 0800h. Not as many animals (14) on the west fence as yesterday. Returned home to work on NSF proposal and Marco went into town for groceries. Today was clear and sunny, temperature in the low 60's. We reset traps on MC (including grid traps) from 1630 to 1700h and RC drift fence traps from 1700 to 1730h. Marco went out on RC tonight for telemetry work around 2000h. (See telemetry data sheet) I'll be going out early in the morning...

March 24 0345h out check on RC for radio-telemetry. It's clear, calm, no moon, low 50's. At 0545h I stopped telemetry & began to check traps on RC drift fences. Met up with Marco and checked MC

New 5+  
9.7.5 1215 P. californicus ♂ Imm, TWD, 11ag. (Green Powder visible behind ears & elbow on skin)  
9.9 1971 " " ♂ M. scrotal. Recapture.

Finished checking traps by 0800h and returned to lab to blood new animals. The new animals were released at their capture points by 0900h. Today was sunny, warm, similar to the previous days. From 1600h to 1645h we set traps on grid RC and RC drift fences. Marco is leaving tomorrow, so we are finished with telemetry. I will trap RC tonight through the 26th, giving 4 nights of trapping with the 15th data. We reset MC drift fence traps and grid MC traps from 1700 to 1715h. 0947 2145h - out checking traps on RC. It's clear, moon is 1/2 full, about 2:00 position in west sky. We finished checking traps by 2245h - Nice results w/ P. californicus this P.M.

March 25 0630h - out checking traps on MC. It's clear, calm, low 50's. Grid MC: Results on  
New 5+  
9.7.5 1213 P. californicus ♀ imm, nullip 15.5g. - Returned to lab for tissues (Green visible in ears, behind ears.)  
9.7.5 1212 " ♂ Imm Recapture  
9.9 1191 " Recapture





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March 25 (cont) We finished checking traps on RC by 0830h (again, good information collected all collars, on *P. californicus*, see spp acct). Returned to lab to bleed 3 new animals.

Summary of results on RC	<u>24 (Am)</u>	<u>25 (Am)</u>	<u># ind.</u>
<i>P. californicus</i>	7 captures (1 new)	8 (1 new)	14
<i>P. boylii</i>	14 " (3 new)	22 (3 new)	27
<i>N. fuscipes</i>	1 "	3 (1 new)	3
<i>Perognathus</i>	2 "	7 (2 new)	7
<i>R. megalotis</i>	1 "	0	1
<i>Microtus</i>	1 " (1 new)	2 (1 new)	3
TOTAL	26 " (5 new)	42 (8 new)	55

Marco returned the new animals on RC to their capture sites on his way out to Bergshiley (0930h), and I returned # 1218 to MC around 1000h. Today was sunny & hot! Pat Kelly (arrived this afternoon) said the thermometer at the Red House indicated 88°F. I reset traps on RC and dispersal fences from 1630 to 1730h and MC drift fences from 1745 to 1810h.

2100h - out checking traps on RC. It's clear, calm, moon is 1/2 full overhead - very bright. Finished checking traps by 2200h and headed home.

March 26 0620h - out checking traps on MC. It's clear, calm, low 50s. Started checking traps on RC 0650h and finished by 0850h.

Summary of results on RC:	<u>25 (Pm)</u>	<u>26 (Am)</u>	<u># ind.</u>
<i>P. californicus</i>	5 captures	11 captures	14
<i>P. boylii</i>	14 (2 new)	27 (6 new)	31
<i>N. fuscipes</i>	0	2	2
<i>Perognathus</i>	2	5	6
<i>Sorex holobrychi</i>	0	1 (1 new)	1
<i>R. megalotis</i>	1	1	1
<i>Microtus</i>	1	2 (1 new)	3
TOTAL	23	49 (8 new)	58

Today was sunny & warm again. I spent most of day working on my NSF grant... yippe-yeah. I reset RC traps from 1630 to 1730 and MC drift fence from 1745 to 1805h.



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March 26 (cont.)

I didn't go out to check traps this PM - I need some sleep!

March 27

0600h - out checking traps on MC. It's clear, calm, low 50's.

I closed all traps on the drift fences and, left passageways open, and covered the pitfall's while I checked traps. I finished checking & picking up traps on RC by <sup>1000</sup>~~0800~~h. On my way back to lab I had serious engine trouble - vacuum pump (thermactor) froze. Suzanne, Mel, & I tinkered with it for about 3 hrs and finally got it working after taking it apart and greasing it.

Mel and I finally headed back to Berkeley around 1700h.

April 4

Arrived back to Hastings around 1700h today (Note that time has switched to Daylight Savings Time, so all times from today on are PST, DST).

It's clear, sunny, low 70's. Spring is still progressing (grass green, most of the trees are fully leaved, more & different flowers blooming), but it is very dry and the soil is very hard. Mark Stanbach said the woodpeckers have begun hatching babies ~ about 2 weeks ahead of schedule. Karen Klein arrived around 1730h - Karen will be working with and for me through June. Good to have her aboard, particularly to monitor activity along the drift fences. We set RC & MC drift fence traps from 1815 to 1915 hrs. It doesn't get dark now until around 1940h.

April 5

0700h - out checking traps on MC drift fences. It's clear, calm, low 50's. We finished checking traps by 0900h and returned to the lab to show Karen around. Later, Karen went into town for groceries, etc, and I stayed to work on paperwork, etc. Today was sunny and warm (mid 80's) with a slight breeze from the west.

From 1715 to 1750 hrs we reset RC drift fence traps and some traps on Grid RC around stations 9, 7 and 4, 13 in order to trap females and possible offspring.



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April 5 (cont). Today we started marking reptiles caught in pit fall cans -

2 young Eumeces were toe-clipped on RC west dispersal fence.

We reset traps on MC dispersal fences from 1800 to 1830h.

2200h - out checking traps on RC. It's clear, calm, upper 50's, no moon yet.

Results on grid traps (P. californicus only).

St.	#	Spp	Wt	Sex	Age	Bdgs.	
5,8	1187	P. californicus	37	♂	M	scrotal	green powder in ears and behind ears.

New 4,13 1222 P. californicus 19.5 ♀ imm. null. Purple powder barely visible behind's in ears. Not the best of colors.

We bled # 1222 at the truck and released her in the field before returning

to the lab to spin down the blood at 2330h.

April 6 0700h - out checking traps on MC. It's clear, calm, upper 50's.

Results on RC grid traps (P. californicus only) =

St.	#	Spp	Wt	Sex	Age	Bdgs.
7,9	1152	P. californicus	39	♂	M	scrotal

5,8 1123 " " 49 ♀ M post-lactating?, pregnant. Dusted w/ GREEN POWDER.

We finished checking traps by 0900h and returned to the cabin.

I spent most of the day working on my NSF grant and misc. Karen went into town. Today was warm and sunny, mid 80's.

We reset RC drift fences and the same grid traps from 1715 to 1745hrs, and MC drift fences from 1800 to 1830h. We

also set traps on MC at Stations 10,5; 10,6; 9,5; and 9,6 to show Karen a P. truei.

2200h - out checking traps on RC grid. It's clear, calm, low 60's, no moon.

Results (P. californicus) only =

St.	#	Spp	Wt	Sex	Age	Bdgs.	
4,13	1181	P. californicus	37	♂	M	Scrotal	Purple powder barely visible in and behind ears.

Very few animals - finished by 2230h.

April 7 0700h - out checking traps on MC. It's partly cloudy this am, low 50's.



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April 7 (cont)

Results on MC traps (*P. californicus* only):

St. #

9,5 1212 *P. californicus* 31g, ♂, SAD, TND.

9,6 1218 " " 19.5g, ♂, 1mm, TND.

10,5 1186? " " 35 ♀, SAD, nullip

Not sure about #. Forgot it in process of handling

10,6 1128 " " 37 ♂, Mat, TND.

Results on EC traps (*P. californicus* only):

6,9 1137 *P. californicus* 54.5 ♀ M. lactating, pregnant. Dusted ORANGE.

5,10 1152 " " Recap

4,8 1187 " " " Covered with fresh GREEN POWDER

4,9 1123 " " "

4,13 1222 " " 1mm ♀. Recap. Eye line.

We finished checking traps around 0930. Skies are still partly cloudy. I left for Berkeley around 1030h, leaving Karen behind to take care of drift fence trapping. (See K. Klein Journal for details)

April 13

Arrived back at Hastings today around 1600h - I don't even remember being so glad to be here (Berkeley was a bitch!). Skies are cloudy today - it rained slightly this am according to Griffie. Karen left for Berkeley this am, so I'm alone with Jessie. Mark Stromberg, new director, arrived today and I ran into him upon arrival. He doesn't officially start work until next week. The green in the hills is beginning to fade, but most wildflowers are out - particularly the lupine.

I reset traps on EC drift fences starting at 1700h. Karen added 10 folding Siemens to the fence east of the grid.

I didn't set all of them, but now there are 20 traps set along this fence. I also set ~16 stations on the grid along the creek to monitor reproduction of females.





Klein, Karen  
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## JOURNAL

### Hastings Reservation, Monterey Co., California

April 7

16:30 I'm going to head out to set the drift fence traps at MC and RC a little early because I want to collect wildflowers and plants as I go along. It's cooler this afternoon than it has been the last couple of days: low 70s - but with a cool breeze blowing ~~and~~ and clear blue skies.

April 8

07:00 Out checking traps on the MC <sup>and RC</sup> drift fences. It's clear and calm with temperatures around the low 50's. There was frost on my car windows and on some of the meadows so it must have been pretty cold last night. I finished checking traps at about 09:15 - it went well!

17:00 I'm leaving to set traps at the drift fences in RC and MC. It's been clear and sunny all day. A constant breeze has blown and temperatures have been in the mid to high 70's.

April 9

07:00 Out checking traps on the MC and RC drift fences. It's clear with a slight breeze and temperature is in low 50's. I finished at 09:30. It really warmed up quickly, it's probably around the high 60's already and a warm wind is blowing. I'm going to get started a little earlier tomorrow. I'm also going to set some extra traps at RC E and possibly W; there were a lot of animals there today! ~~there~~

16:45 I'm heading out to pick up some more bait and traps and then to set the RC and MC drift fences.



ein, Karen  
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## JOURNAL

### Castings Reservation, Monterey Co., California

April 9(cont.)

It was warm today - high 70's, if not the low 80's, clear with a west wind blowing. I caught ~~13~~ 14 animals on RC-West today and there were 29 traps set, to keep it at 50%. I set one more trap at W-12 to make it an even 30. I'll see how things go tomorrow. If I catch 15+ then I'll set out 10 more traps tomorrow evening. At RC-East I caught 6 animals this morning and there are 12 traps set up. I set up 10 more just to be sure we surpass the 50% mark. Extra Traps set at: E-8(2), E-6(2), E-4(2), E-2(2), E-1.5(1), and E-2.5(1) so there's a total of 22 traps on RC-E drift fence now.

April 10

06:40. It's much warmer this morning than it has been - high 50's. There are a few high clouds and it's calm.

10:40 I'm heading out to reset traps along the RC and MC drift fences. It was warm today - high 70's with some scattered high clouds and a warm wind. Since I trapped so few animals on RC-East this morning (4) and I had so many traps out (22), I moved three of them about 50 feet outside the <sup>north end of the</sup> grid just to see what I catch.

April 11

06:45 It's clear and in the high 50's - low 60's. There's a slight breeze blowing. No animals were captured in the three traps that I moved off the fence.



Klein, Karen  
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## Journal

### Hastings Reservation, Monterey Co., Calif.

April 11 (cont.) 06:30 It got up to the high 70's today, clear skies and windy. I'm heading out to set traps along the RC and MC drift fences. I removed one of the traps from RC-West - the one that I had placed there on ~~April~~ 9 April because it was broken and I couldn't fix it there.

April 12 06:40 It's cooler this morning in the low 50's, clear and calm. Time to check traps at RC and MC drift fences. It's been cool and overcast all day with a breeze blowing. Dave can't get back down here today so I'll go set the MC and RC drift fences without him - it's 16:30.

April 13 06:50 It's cold (low 50's) and foggy this morning. I can barely see the tops of the surrounding hills but the visibility down here is relatively good. I'm setting out to check traps at the RC and MC drift fences.

I've found four Ensatina? all in one of the coffee cans together at WC-W1.5. One is very large and appears to be gravid. They are all an orange color with smooth skin - aquatic?

07:20 A light rain is beginning and I'm at the MC fence still. A intermittent rain kept up until 08:50 when a steady shower began and continued until I made it back at 09:30.

lots of salamanders were caught. Totals = R 6 Taricha, 5 Ensatina (all in coffee cans) and



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ril 13 (cont.) at ~~MC~~ MC 8 *Ensatina* (all in coffee cans except  
1) and 1 *Taricha* (in a coffee can).





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April 13 (cont). 1800h - it started to rain lightly and I returned to the cabin before setting MC drift fence traps from 1845 to 1715h.

2210h - out checking traps on RC - it's overcast, calm, dark; mid 50's.

Results (P. californicus only):

	St	#	SPD	
N	7,9	1223	P. californicus	40.5 ♂ M, scrotal. No sign of powder.
N	4,13	1224	" "	22.5 ♀ Imm, nullip. NO sign of ant powder. Escaped to south of station
	6,17	1955	" "	41 ♂ M, scrotal. About to lose ear tag. T.C # 0200

I bled the 2 new animals at the truck and released them at their capture sites. Returned to the lab by 2310h to spin down blood

April 14 0645h - out checking traps on MC drift fences. It's overcast and raining lightly. Shortly after I started it began raining hard! Starting checking traps on RC by 0730h - still raining.

Results on GRID RC traps (P. californicus only):

	St.	#				
New	7,9	1227	P. californicus	24	♂ Imm, TWO	Trap #144/ Definite ORANGE powder in ears.
New	5,12	1226	P. californicus	25.5g	♂ Imm, TWO	Purple powder ?? in ears. #67
	5,9	1123	"		♀ M, lactating.	
	5,14	1218	"		♀ Imm.	
	6,14	1244	"	♂ M scrotal.	Patch on back	

5,17 1955 Recapture

(Mortality less)

I finished checking traps by 0830h and returned to the lab to bleed them - it just raining about now. There were alot (~25 to 30)

salamanders in pit falls this am. Particularly abundant were Eusatria (~10) on grid MC. One can on RC had 10 Taricha & 2 Eusatria.

Unfortunately due to the conditions I opted to not mark them and I simply dumped them onto the opposite side of the fence.

I was most concerned about getting to all the rodents before they got wet and died. I was fortunate and didn't lose any animals this am. Stanbach said it snowed on Chew's Ridge.



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April 14 (cont) I did find a dead *P. boylii* at station 5,17 on the ground. I caught this animal last night and upon release it was a bit torpid, but it seemed ok. Returned it to the lab and stuffed it (Cat # 844) along with 2 mortalities Karen had put in the freezer.

I released the new animals at their capture sites around 1300h, in good shape. It remained cloudy and cool the remaining AM, it rained hard for ~~a~~ 5-10 minutes at 1500h and again at 1600h.

I reset RC drift fence and grid traps from 1715 to 1815h - I put paper towels in each trap for bedding material. Also, I only set the 12 traps in passageways on the east drift fence.

I reset MC drift fence traps from 1830 to 1900h. It rained again this evening around 2100h.

2215h - out checking traps on RC. It's cold & raining. I'll close grid traps as I check them. Results (*P. californicus* only):

ST	#	SPP	RECAP	Eye	Foot
5,11	1227	<i>P. californicus</i>	RECAP	Eye fine	
5,12	1146	" "	42g ♀	M, post-lacting	DUSTED PURPLE POWDER
5,13	1222		23g ♀	Imm, nullip	
5,13	1224	" "	RECAP ♀	Imm, nullip	

Finished checking traps by 2250h and headed home.

April 15 0640h - out checking traps on MC. It's cool, overcast - looks like it could rain any second now. The gods spared me this am - no rain. I marked all <sup>clippable</sup> salamanders this am (49 total!). I finished around 0900h and returned to the lab to prepare Sorex mortality from MC drift fence. I spent the day washing clothes and entering Capture data into the computer. It remained cloudy and cool all day. From 1745 to 1830h I reset RC drift fence traps and from 1845 to 1915h I reset MC drift fence traps. By the time I



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April 15 (cont.) finished setting traps ~~it~~ it was foggy and lightly drizzling. It remained that way until I went to bed. Mel arrived tonight

April 16 0645h - out checking traps on MC. It's cool, foggy, and wet!

Since Mel and I are meeting her parents in Monterey this am, I didn't have time to mark the salamanders - I just transferred them across the fence. I finished checking all traps by 0840h. Returned to the lab with a new P. californicus <sup>(#1228)</sup> that I put in a plastic holding cage.

1000h - returned from Monterey and bled #1228 and released him in good shape about 1630h. This afternoon was overcast, misty, and cool. Since the Staffords are here no traps ~~to~~ were set, but I did leave the pitfall cans open.

April 17 The skies were clear (at last!) this am, but clouds moved in by 1000h and the rest of the day was partly cloudy to overcast. We (Mel, Staffords) took a hike this am and I checked all pit falls, releasing all (~5) salamanders unmarked. On our hike we found some very nice Felis concolor prints on the Martin Rd, ~~2~~ 100m west of the cutoff rd to Mark and Shorby's, and on the road to Mark and Shorby's. Big animal, P. Kelly measured them at 80 x 90 mm. The Staffords left around 1400h and Mel around 1700h - nice visit.

From 1700 to 1830 I reset MC drift fence traps and set all traps on <sup>cover</sup> MC grid. I'm expecting good results since the vegetation is probably as full as it gets. I reset MC drift fence traps from 1845 to 1915h.



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April 17 2230h - out checking traps on MC. It's cool (low 50's) and foggy (thick)  
(cont)

Finished checking traps by 2340h - fog has lifted; it's slightly drizzling.

April 18 0645h - out checking traps on MC. It's partly cloudy, low 40's.

The clouds dropped producing fog, but by 0900h it was clear & sunny.  
Jigsaw began weighing all animals on the drift fence

Finished checking all traps by 0930h and returned to lab to

stuff Sorex mortality from 16 April. Summary of results on GRID MC:

	17 (PM)	18 (AM)	# ind.
<u>P. californicus</u>	5 captures	8 capt.	9

<u>P. boylii</u>	6 capt (1 new)	12 capt (3 new)	14
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<u>D. truei</u>	4 " (1 new)	4 " (1 new)	6
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<u>N. fuscipes</u>	1 "	2 " (1 new)	2
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TOTAL	16	26	31 ind.
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Today was partly cloudy and warm (low 60's), so things dried out somewhat.  
I went into town during the afternoon for groceries.

I reset MC ~~the~~ grid; drift fence traps from 1700 to 1815h.

I set the large National trap near station 7, 6 to 12, and  
catch the animal that is turning traps on the grid

Reset RC drift fence traps from 1830 to 1900h. There is  
a slight chance of rain tonight and good chance tomorrow,  
so I put a paper towel in all drift fence traps.

2230h - out checking traps on MC. It's partly cloudy, breezy (from west),  
low 50's. Finished by 2330h; not much activity except for many  
traps near creek bed run over; pressed on (e.g. Urocyon)

April 19 0645h - out checking traps on MC. It's overcast & sprinkling lightly.

It continued to sprinkle on and off all morning, never getting very serious.  
I found a P. californicus skull at station 8, 17 (see spp acct.).

I finished checking MC by 0940h - again a lot of traps along

the creek bed were turned over. Finished checking RC drift  
fence traps by 0930h and returned to the lab.





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April 19 (cont)	Summary of results on MC:		18 (Pm)	19 (Am)	# ind
	<u>P. californicus</u>		5 capt	11 capt	12
	<u>P. boylii</u>		4 "	10 "	13
	<u>P. truei</u>		4 "	18 " (3 new)	12
	<u>N. fuscipes</u>		1 "	2 " (1 new)	2
	<u>Perognathus</u>		0	1 "	1
	<u>TOTAL</u>		14	34 "	40 ind.

I spent the rest of the morning preparing specimens that were previously frozen. In the afternoon I worked on entering data. It began raining harder this afternoon and continued past sunset.

From 1700 to 1830h I reset MC grid & drift fence traps. The trails are very muddy and I was soaked by the time I finished. I reset R drift fence traps from 1830 to 1900h.

Karen arrived back at Hastings this evening.

2215h - out checking traps on MC. It's not raining now, but it could start any minute! It rained off and on throughout. We finished checking traps by 2330h & headed home.

April 20 0645h - out checking traps on MC. It's mostly clear this morning, very wet from the rain last night, and cool (upper 40's). Clouds moved in quickly this am, resulting in partly cloudy skies. We finished checking all traps by 0930h. I returned to the lab to prepare a ~~sex~~ mortality and 2 frozen specimens. Karen went into town for groceries.

Summary of results on MC:		19 (Pm)	20 (Am)	# ind
<u>P. californicus</u>		4 capt	6 capt	7
<u>P. boylii</u>		4 "	9 " (2 new)	10
<u>P. truei</u>		6 "	9 "	13
<u>N. fuscipes</u>		0	1 "	1
<u>TOTAL</u>		14	25	31 ind.

Not bad considering weather conditions.



Hastings Natural History Reservation, Markey Co., Calif

April 20.  
(cont)

This afternoon we worked on data entry & analysis. Skies remained partly cloudy all day. From 1700+ 1850h we reset MC grid and drift fence traps. It took a long time because we had to clean out most of the traps and replace the bait. From 1840 to 1910h we reset ~~MC~~ RC drift fence traps.

2215h - out checking traps on MC. It's overcast, low 50's.

Not much activity - we finished by 2315h & headed home.

April 21

0645h - out checking traps on MC. It's mostly clear (although clouds are visible in the western horizon) and cool ~~low~~ mid 40's.

We finished checking traps by 0915h, under clear, sunny skies.

Summary of results:	<u>20 (PM)</u>	<u>21 (AM)</u>	<u># ind</u>
<u>P. californicus</u>	3 captures	9 captures	9
<u>P. boylii</u>	4 " (1 new)	12 " (1 new)	13
<u>P. truei</u>	9 " (1 new)	10 "	12
<u>N. fuscipes</u>	0	1 "	1
<u>Perognathus</u>	1	1	1
TOTAL	17 (2 new)	33 (1 new)	36 ind

I spent the rest of the am preparing frozen specimens and Karen worked on data entry. Skies were partly cloudy all day, but it was sunny and warm most of the time. Marco arrived this afternoon for telemetry work. The three of us set out at 1600h to set all traps on grid RC and reset drift fence traps. Heavy clouds moved over and the temperature dropped 10°, but it never rained - We finished setting all traps by 1645h and proceeded to reset grid MC, finishing by 1730h (quickly with three of us).

2210h - out checking traps, ~~MC~~ on MC. It's cloudy & cool. We finished MC by 2240h and headed to RC to check traps. We only recorded P. californicus. It started drizzling while checking RC & C. GREAT RESULTS!! (See spreadsheet) We headed home around midnight.



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April 22 0645h - out checking traps on RC (first). It's overcast and very wet - it probably drizzled most of the evening. Karen & Marco said it rained hard for a while during the evening (I slept through it). It started raining lightly while we were checking traps. We finished checking RC by 0800h & proceeded to check MC, picking up or cleaning traps as we went. We finished around 0915h, about the time it stopped raining. ----- returned to the lab to bleed 5 new P. californicus from RC (2 from last night) and set up 5 Sorex mortalities from this am.

Summary of results on MC:	21 (PM)	22 (AM)	# ind
<u>P. californicus</u>	3	6	8
<u>D. boylii</u>	4	6 (1 new)	8
<u>D. truei</u>	5	7	9
<u>N. fuscipes</u>	1	2	2
<u>Perognathus</u>	0	1	1
TOTAL	13	22	28

Marco returned all the new P. californicus to the capture sites around 1230h. It remained cloudy and cool all day, but no rain.

From 1715 to 1815h we reset all ~~the~~ traps on GRD RC and RC drift fences. Marco worked on radio-locations. We reset MC drift fence traps around 1830h.

2230h - Marco & I are out checking traps on RC. It's cloudy and raining. Not much activity thus far - it's been raining since 2145h which may have an effect. We got radio-locations on all animals, finishing about midnight.

April 23 0645h - out checking traps on MC drift fences. It's cloudy, wet, upper 40's. It stayed dry but cloudy this am. We finished checking traps around 0900 and bled a new animal (#1236) at the truck, releasing it before we headed to the lab to set up 6 Sorex mortalities from this am.



Hastings Reservation, Monterey Co., Calif.April 23  
(cont).

This afternoon it was partly cloudy, mid 50's. From 1600 to 1700 hrs we ~~reset~~ traps on GRID WR. Since there are still folding Shermans on RC, we didn't have enough traps to put 2 at each station. So  $\frac{1}{2}$  the stations have 2, and  $\frac{1}{2}$  only one (tried to put 2 at every "good" P. californicus site). From 1700 to 1800 hr we reset RC traps. We shuffled around many of the stations to maximize P. californicus capture probabilities, baited many of the <sup>traps</sup> stations with peanut butter, and picked up the folding Shermans along row B on the slope. Hopefully these efforts will improve our chances of catching the P. californicus we need for radio-telemetry.

2250h - out to check traps & monitor animals on RC. It's clear - finally, and cool (40's). The moon is  $\frac{1}{2}$  full, about 10 o'clock in <sup>western</sup> ~~eastern~~ sky. Better results this PM, we radio-collared 2 more animals.

Headed home around midnight.

April 24 0640h out checking traps on MC drift fences. It's clear and cool (low 40's). After finishing MC drift fences, we proceeded to grid RC. We opened up or picked up all traps as we checked the grid. Radio-collared one more animal. Started checking traps on WR by 0815h and finished by 0915h. Bled a new animal from WR (#1240) at the truck and Marco returned it to its capture site. Also bled a new imm from RC (#1237) at the truck, but returned it to the lab to look for any fluorescent powder. Summary of WR results:

<u>P. californicus</u>	5 (1 new)
<u>P. truei</u>	7 (2 new)
<u>P. boylii</u>	2
<u>Perognathus</u>	2
<u>N. fuscipes</u>	3 (1 new)
TOTAL	19 (4 new)





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April 24 (cont) Returned to lab to spin down blood. Returned #1237 to its capture site before noon. The afternoon was mostly sunny and warm (60s).  
 From 1730 to 1800h we reset traps on GRIDWR, adding more traps so that every station has 2 traps. From 1800 to 1900h we reset all drift fence traps on RC & MC. I also set 4 traps at the east end of RC for 1178's mate.  
 2100h - Marco & Karen set out for grid RC for telemetry work. I will join them later. It is clear, moon is  $\frac{1}{2}$  full and directly overhead, and it's cool (low 50's).  
 2300h - out to meet up with Marco on grid RC. There is a high thin layer of clouds which is only obscuring the moon. Marco checked a few animals with me before leaving. See Telemetry data for summary of results.

April 25 0115h - headed home for some shut-eye!

0640h - out on MC checking drift fence traps. It's clear and cool this am (low 50's). Started checking traps on WR by 0800h. Caught 2 new animals that we returned to the laboratory to bleed.

Summary of results on WR:

<u>P. californicus</u>	11 captures (2 new)
<u>P. truei</u>	13 " (4 new)
<u>P. boylii</u>	3 " (1 new)
<u>P. eremicus</u>	3 "
<u>N. fuscipes</u>	4 "
<u>TOTAL</u>	34 capt (7 new)

Today was sunny and clear, and warm (low 70's). Karen went into town today, and Marco and I did some telemetry and pothing around on RC. We all reassembled and reset traps on WR from 1630 to 1730h. We put out 6 of P. Kelly's *Neotoma* lures to try and catch *Neotoma* before they roll the shovels.



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April 25 From 1730 to 1800h we set out a transect of 7 stations (2 traps per) along Robertson Creek at its confluence with Finch Creek (just below the Hastings gate). The purpose of this transect is to capture a mated pair to put into captivity for fluorescent powder experiments. We finished by setting RC & then MC dispersal fences. ~~from 1830 to 1900h~~ 2030h - Marco set out for telemetry on C9 and RC. All we going out around 0300h (yippie-skeepee)

April 26 0305h - out on RC. It's clear, cool, moon is  $\approx 5/8$  full; just setting animals

9,17 1955 ♂ M scrotal 42.5g. Covered with RED powder. P...  
10,16 1137 ♀ M testis very swollen, but no milk. See Telemetry data.

... we all start checking drift fence traps. I did some (See Spp Acct for P. californicus locations) more telemetry between drift fences. Finished checking all drift fences & last telemetry locations at 0710h & headed down to gate to meet Marco's lawn.

Results on transect (P. californicus only).

5f #2 #1135 ♀ <sup>Wt</sup> 41.5g. Dusk <sup>seen</sup> on RC. - Ear tagged! Dec 8/6 (see spp acct)  
New 3 1243 ♂ M, TND 43g.

These two animals will make good captures, assuming they are mated. We started checking traps on WR by 0800h, finishing by 0900h. We returned to the lab with 1955 & 1137 to put a new collar on #3-1955; replace the collar of 1137. We put a collar on #1955, Ch #10, and #1137, Ch #7. Returned them to their capture sites and released them at 1045h (see P. californicus spp acct).



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April 26 (cont.) Summary of results on WR: P. californicus = 7 captures

P. truei : 11 " 4 (new)

P. boylii : 4 " (2 new)

Perognathus : 4 " (2 new)

N. fuscipes : 9 " (3 new)

TOTAL : 35 " (11 new)

Today was sunny and warm (upper 70's) - Karen worked on cleaning up the enclosure at Mark & Shorty's while Marco & I rested up for another night of telemetry.

1700h - out resetting traps on GRID WR, finished by 1730h. From 1730 to 1815h we reset traps on RC drift fences. I added 4 more traps to the east fence, bringing the total to 16. Marco spent time setting up a monitoring system at the nest of 1137 (see spp acct). Marco & Karen reset MC drift fence traps, finishing by 1900h. 2030h - Marco went out for telemetry (see telemetry data)

April 27 0340h - out on RC for telemetry. The moon is just setting, partly cloudy in west. Temp in low 50's. Exciting night! (see spp acct.) I checked RC drift fences around 0630h & then met up with Karen's Marco. Results on transect at Robertson & Finch Creek confluence.

# 2 1135 Recap } Kept for captivity  
# 3 1243 Recap - Green Powder visible in ears, feet, & mouth } purposes.

Since we got these two, we picked up all traps on the transect. We started on GRID WR around 0800h & finished by 0830h - not many animals. Headed back to lab to process blood from # 1243 & take a ~~small~~ vaginal smear from 1135. Summary of results on WR:

P. californicus : 7 captures

P. truei : 12 " (1 new)

P. boylii : 3 "

Perognathus : 2 "

N. fuscipes : 8 " (1 new)

TOTAL : 32 " (2 new)



Hastings Reservation, Monterey Co., Calif.

April 27 We successfully took a vaginal smear from #1135 and Karen introduced these animals to the enclosure late this am.

Today was partly cloudy and cooler (low 70's) than yesterday.

<sup>1000 to 1630h</sup>  
From ~~1630~~ to ~~1700~~ we reset PC drift fence traps and Marco set 8 traps around Station 9, 18 (under to catch #1135) - From 1640 to 1715h we reset all traps on GRID WR.

April 28 0305h - out doing telemetry on PC. It's pc in west, moon is 3/4 full and setting, upper 40's.  
0610h - began to check PC drift fence traps. It's clear (still a few clouds in west) and cool (upper 40's). 0730h - moved down to gate to meet Marco and Karen. Finished checking and picking up all traps on WR by 0915h and returned to lab to bleed 2 new animals.

Summary of results on WR:

<u>P. californicus</u>	:	12	captures (2 new)
<u>P. truei</u>	:	14	" 6
<u>P. boylii</u>	:	2	"
<u>Perognathus</u>	:	3	"
<u>N. fuscipes</u>	:	10	" (3 new), immortality

TOTAL : 41 captures (5 new)

I released the new animals from WR around 1100h in good shape and returned to put traps up. Karen took another successful vaginal smear from our captive animal (#1135).

This afternoon was partly cloudy to mostly cloudy (another storm moving in) and cool (upper 60's).

I reset PC drift fence traps from 1700 to 1900hrs, while Marco set up the telemetry for recording of ♀ #1979 with the long cable and paddle. Hopefully, we will be able to get a signal from ♂ #1955. Karen reset MC drift fence traps around the same time. 2000h - Marco left for one finally night of telemetry.





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## JOURNAL

### Hastings Reservation, Monterey Co., California

April 29 17:00 I'm heading out to set the drift fence traps. It's been cloudy and cool (60's) all day but now there is some blue sky and the sun is out rather brightly.

April 30 06:40 I'm off to check the drift fence traps. It's cool (hi 50's - low 60's) but clear with just a few high clouds. No wind. A ~~rain~~ rain shower began while I was checking <sup>the</sup> RC-West fence. Dark clouds moved in quickly and now a cold wind is also blowing.



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April 29. 0300h - out checking traps on RC for telemetry. The moon is  $\frac{3}{4}$  full, 2 o'clock in west, and bright. Temp  $\sim$  upper 40's. Telemetry was bugging this am (see telemetry data). Started checking traps ~~on~~ on RC drift fences around 0600h. Finished up and headed home by 0700h. Karen checked MC drift fences this am. Marco and I packed up and left for Berkeley by 0800h. Karen will check drift fence traps tomorrow am and leave traps shut, blocking passageways (see her Journal)

May 2 Arrived back at Hastings this afternoon at 1730h. ~~Hot~~ Skies are mostly clear (a few clouds) and warm (upper 70's). Had to hustle to get all traps set: MC drift fence traps from 1800 to 1830 and RC gnd traps and drift fence traps from 1840 to 2000h. Finished just as it was getting dark. The moon is practically full (last night was peak) and rises about 2100h. No traps checked this PM.

May 3. 0630h - out checking traps on MC drift fences. It's clear and cool (low 50's). Started checking traps on RC by 0715h. Lot of animals this am! Didn't finish checking traps until 1030h. Went to check on captive animals & take a vaginal smear (see notes on individual animals). Returned to lab to bleed new animal and disconnect radio-collars.

Summary of results on RC: P. californicus. 14 captures (1 new)

P. boylii : 29 " (9 new)

N. fuscipes : 5 " (5 new)

Perognathus : 3 "

Microtus : 2 " (1 new)

P. maniculatus : 4 " (2 new)

E. megalotis : 2 " (1 new)

TOTAL. 59 " (19 new)

81 total animals captured this am with drift fence animals.



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May 3  
(cont.)

Spent the afternoon organizing my life.... and getting some things together for habitat measures. Today was mostly clear and warm (low 70's).

At 11:45 hrs I spent some time on RC getting radio-locations from the remaining collared animals (see Sp. Sect. & Telemetry Data).

Reset all RC traps from 1715 to 1800 hrs, went back to lab and picked up #1257, and released him in good shape by 1815h.

Reset MC drift fence traps from 1820 to 1845h.

2215h - out checking traps on RC. It's clear, calm, cool (mid 40's), no moon yet.

May 4

0615h - finished checking traps, a lot of animals. The moon is rising in the west. Not visible yet, but skies noticeably lighter.

0630h - out checking traps on MC drift fences. It's partly cloudy and cool (mid 40's). It remained partly to mostly cloudy all morning. Finished checking all traps by 0945h and returned to lab to check new animal from last night.

Summary of results on RC:			
	3 (PM)	4 (AM)	# und
<u>P. californicus</u>	10 captures (1 new)	13	18
<u>P. boylii</u>	28 " (2 new)	27 (3 new)	40
<u>N. fuscipes</u>	2 "	5 (2 new)	6
<u>Perognathus</u>	1 "	1	2
<u>Microtus</u>	3 " (3 new)	4 (2 new)	6
<u>P. maniculatus</u>	2 "	4	4
TOTAL	46 (6 new)	54 (7 new)	76

With drift fence animals, a total of 99 different individuals captured last night. Released the new animal at its capture site before noon.

It remained partly cloudy, windy, and cool all day (low 60's).

I spent the afternoon organizing - made a "step-point" habitat pole from PVC pipe; moved the computer to the lab, made a 4-sided cover for the hygrothermograph, and washed clothes. At 1600h I went to RC and set up the hygrothermograph (Temp. box) 2m NE of station 6, 13. It's situated under a buckeye in a bed of grasses and blackberry.




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May 4  
(cont.)

I cleared the grass where the temp. box sits. The outer box is oriented east-west to shade the hygro. from the sun, and it is open to the north (eg. ). I left extra droppers' ink in a milk carton. I know the temperature gauge is correct, having tested it on the cabin porch for 12h. I don't know about the accuracy of the humidity recording.

Took radio locations on the 2 remaining individuals with collars and located one of the missing collars (see spp acct). Reset all DC traps from 1700 to 1820h, clearing poison oak along the way. I added ~10 more traps to the west drift fence to keep capture rate  $\leq 50\%$ . Karen showed up and she reset MC drift fence traps around 1830h.

2210h - out checking traps on DC. It's still breezy, partly cloudy, low 50's. We finished checking traps by 2325h and I radio-located # 1137 at 7.9 (see spp acct).

May 5

0640h - out checking traps on MC drift fences. It's mostly cloudy, some low clouds on ridges, mid 40's, and calm. It started raining as we started on DC, and the rain continued on and off until we finished at 0915h. Returned to lab to bleed 2 new animals.

Summary of results on DC.	4 (PM)	5 (AM)	# ind
	9 captures	13 capt (1 new)	18
<u>P. californicus</u>			
<u>P. boylii</u>	24 " (2 new)	26 " (3 new)	30
<u>N. fuscipes</u>	4 "	6 "	8
<u>Perognathus</u>	0 "	2 "	2
<u>Microtus</u>	5 "	3 "	6
<u>P. maniculatus</u>	4 "	3 "	5
TOTAL	40 (2 new)	53 " (4 new)	75 ind

With dispersal fence animals, total of 105 animals this am.

Karen took a vaginal smear from the capture female this am (see ind. acct)





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May 5  
(cont)

It continued to rain off and on all day, even hailing at times. After some rest Karen worked on the computer and I worked on habitat schemes. From 1700 to 1800h we reset all traps on RC, adding paper towels to the drift fence traps. I took Karen back to the lab so she could set MC drift fence traps. I returned to RC with Mark Stanback to retrieve ♀ #114Z's (see spp acct) collar. I also released the 2 new animals bled this am. #1265 was released out on RC west fence and he followed the fence north and went in another trap. I then released him on the in side and he scurried away 225-out on RC. It's cold & raining! Shitty! It quit raining shortly after we started. Many traps with animals were very wet inside and the ~~rats~~ rolled onto a mess - I left those closed. Finished by 2325h.

May 6 0645h - out checking traps on MC. It's cloudy and cool (low 40's), looks like it ~~could~~ rain any instant. It actually stayed dry and the sun was shining when we finished checking traps at 0930h. I returned to the lab to bleed 2 new *P. californicus* and stuff 3 *Sorex* mortalities, and Karen went to ~~the~~ clean out the captive animal cage and take vaginal smears from My female.

	5 LPM)	6 LAM)	# ind.
Summary of results on GRID RC: <i>P. californicus</i>	13 capt	13 capt.	20
<i>P. boylii</i>	17 " (1 new)	26 " (1 new)	33
<i>N. ruscipes</i>	2 "	5 " (1 new)	6
<i>Perognathus</i>	0	2 "	2
<i>Microtus</i>	8 " (3 new)	6 " (1 new)	12
<i>P. maniculatus</i>	3 "	3 "	4
TOTAL:	43 "	55 "	77 ind

Over 100 animals with drift fence animals. It took me until 1400h to finish bleeding & stuffing. Karen released #1266 before noon. I released #1260 at 1530h (see spp acct). We reset RC traps from 1530 to 1700h (cleaning out many traps), and MC drift fence traps from 1700 to 1730h (a little earlier than usual due to movie night in Carmel). The weather remained the same today - rain off and on, high in the low 50's.



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May 6 2300h - din out by myself to check gud RC. It's cool & raining lightly.  
(cont)  
May 7 Finished checking traps by 0030h and returned home (with new P. californicus).  
Karen checked MC drift fences alone this am. We met up at 0715h and  
blod #1269 before proceeding to gud RC around 0800h. Picked up traps  
on RC as we checked them. See spec sheet for release of 1269. Finished  
by 1000h and returned to lab to put up P. boylii mortality.

Summary of results on RC:	60 (PM)	7 (AM)	# ind.
<u>P. californicus</u>	11 (1 new)	15	21
<u>P. boylii</u>	16 (2 new)	15 (1 mortality)	23
<u>N. fuscipes</u>	2	3 (1 new)	4
<u>Perognathus</u>	2	3	4
<u>Microtus</u>	7	2 (1 new)	9
<u>P. maniculatus</u>	3	4	4
TOTAL	41 (3 new)	42 (2 new)	65 ind

This afternoon Karen worked on the computer and I finally got some rest.  
Today was RC with ~~sun~~ sunshine! We reset RC drift fence traps from  
11045 to 1715h and picked up the hygrometeorograph. We then reset  
MC drift fence traps. I set up the hygrom. on MC ~~trap~~ 3m east  
of station B, 10 under a Buckeye. I also set the large ~~trap~~ National  
trap on the inside of the east drift fence (NE-4) to try and catch  
the Urocyon that has been turning traps and digging under the  
fence.

'No traps to check tonight.'

May 8 0455h - out checking traps on MC. It's overcast and cool. Nothing  
captured in the large National trap, but 2 of the carcasses left in the  
back of the trap as bait were missing. Also found fresh ~~sc~~ carmel scat  
nearby. Finished checking RC drift fence traps by 0800h.  
I talked with Karen this am and we decided it best that  
she leave - things just haven't worked out and I think we are in agreement.



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May 8  
(cont)

However, I think she lifted a huff - - -

I wanted to use the weedeater today to <sup>clean</sup> ~~straighten~~ up the drift fences, but I couldn't find any of the components and Suzanne is gone.

Spent most of the afternoon working on MC west drift fence: showing up sags, filling in gaps with dirt, and straightening passageways.

Today was mostly sunny and warm (upper 60's). It was so nice I had to get out and do something fun - so I set traps a bit early. From 1500 to 1615h I reset MC drift fence traps and the top  $2\frac{1}{2}$  rows (rows 11, 10, & 9) on the grid. I want to assess reproductive condition of females. Reset RC drift fence traps from 1630 to 1700h.

May 9

0630h - out checking traps on MC. It's mostly clear, upper 40's. Finished checking all traps by 0900h and returned to lab to load 2 new animals from GRW MC. Released them at their capture sites by 1100h. Went into the Village around noon to mail a package to a potential field assistant and pick up a few items.

Today was sunny & warm (low 70's) - nice. Spent most of the afternoon fidgeting around with the weedeater - couldn't get the thing to start. Gave up and set RC drift fence traps from 1700 to 1730h. Stopped by Mark's Shop's and they helped me start it (one wire was unplugged!).

Reset MC drift fence traps and grid traps from 1800 to 1845hrs. Started running grass & ~~under~~ forbs along west drift fence ~~and~~ (finished) and east fence ~~when~~. Eventually ran out of gas and quit around 1930h.

May 10

0630h - out checking traps on MC. It's clear, low 50's. On RC drift fence, station E-1 (in), there was a P. boylii and a dead Sorex ornatus.



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May 10  
(cont.)

in the same traps. The Sorex was partially dried out (testis & nose) and internally decomposing. I suspect it was in the trap yesterday, but under the tundra, so I missed it. Returned to lab to prepare it (Cat #865, full skeleton only) and bleed new P. californicus around 0900h. Released new P. californicus around 1000h and then finished trimming around the MC east drift fence with the weed-eater. Then finished off trimming both DC drift fences. Spent all afternoon cleaning traps (from Grid DC) and building another enclosure similar to the existing one. Today was sunny and warm (low 80's) - very nice! Reset MC drift fence traps and grid traps from 1730 to 1830h. Finished resetting DC drift fence traps around 1900h.

May 11

0600h - out checking traps on MC. It's clear and warm (upper 50's). I'll be closing all drift fence traps and leaving passage ways open. Finished checking traps by 0815h. Checked & fed captive animals. Left for Berkeley around 1030h.

May 16

Arrived back at Hastings today around 1400h. Skies are cloudy, low 60's - it rained on me most of the way down. From 1600 to 1800hrs I set traps on Grid MC and the drift fence traps on MC. Replaced the paper on the hygrometer-graph to begin another cycle. Reset DC drift fence traps from 1800 to 1830hrs and went to check on the captive animals. It started drizzling around 1900hrs and continued into the evening. 2230h - out checking traps on MC. It's overcast, low 40's (not raining yet). Finished by 2330h & headed home. Skies beginning to clear.





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May 17 0620h - out checking traps on MC. It's overcast and cool (mid 40's). Didn't finish checking all traps until 1000h. Stopped at Mark and Shorty's and took a vaginal smear from the captive female on my way back to lab.

	16 (PM)	17 (AM)	# ind
Summary of results on MC: <u>P. californicus</u> :	5 captures	9 captures	10
<u>P. truei</u> :	3 "	7 " (1 new)	9
<u>P. boylii</u> :	6 " (1 new)	18 " (1 new)	19
<u>N. fuscipes</u> :	0	3 " (1 new)	3
TOTAL	14 " (1 new)	37 (3 new)	41

Good results considering the weather. Took until 1400h to bleed new P. californicus, stuff 2 mortalities, and examine smears. Today was partly cloudy, breezy, and cool (low 60's). From 1630 to 1700h I reset RC drift fences and released the new P. californicus in good shape (it escaped up slope past the end of the drift fence). Reset all MC traps from 1715 to 1930h.

2220h - out checking traps on MC. It's overcast, calm, low 50's.

Finished checking traps by 2320h and headed home for some sleep....

May 18 0615h - out checking traps on MC. It's clear, calm, mid 40's. About 20 stations on the grid had ~~the~~ traps turned over on rows 5, 6, & 7. Urine evident on a few, so presumably it's a damn Urocyon again. I have to take care of this somehow... ~~Returned to~~ Finished checking traps by 0900h, stopped to take a smear from ♀ 1135, and returned to lab to bleed 3 new animals.

	17 (PM)	18 (AM)	# ind
Summary of results on MC: <u>P. californicus</u>	5	9	11
<u>P. truei</u>	7 (1 new)	7	9
<u>P. boylii</u>	7 (1 new)	10	14
<u>N. fuscipes</u>	0	1 (1 new)	1
TOTAL	19 (2 new)	27 (1 new)	35 ind



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May 18  
(cont.)


I released all the new animals at their capture sites before noon. Today was sunny and clear, upper 70's. Spent most of the afternoon working on the enclosure - almost finished.

Reset RC drift fence traps from 1645 to 1715 hrs. As I was walking from the west fence to the east fence across the grid, from 20m away I flushed a Cooper's Hawk at station 9, 17. When I walked past the station, I found a decapitated or Sylvilagus bachmani. ~~Observed~~ The bunny was still warm and soft, so the hawk must have just killed it. I kept the bunny for use as bait for Urocyon on GC10 MC.

Reset MC traps from 1730 to 1840h. Set the large national trap baited with the S. bachmani near station 8, 10.

2230h - out checking traps on MC. It's clear, calm, mid 50's. The moon (1/4 full) is just setting. The national trap was sprung, but nothing in it. The rabbit/bait had been chewed. Reset it. Several (~15) stations had traps turned. Finished checking traps by 2335h.

May 19 0615h - out checking traps on MC. It's clear, calm, low 50's. Caught the Urocyon in the trap this am! Carried it in the trap back to the truck to release away from here. Finished checking traps on RC by 0915h. Drove over to Mark's Shorttip to clean out the cage of the captive animals and take a vaginal smear from #1135. I had Mark help me lift up the trap to sex

the Urocyon and shit, it appears as if it is a lactating ♀♀. The anterior teats don't look lactating, but the posterior 2 are definitely swollen and sagging (eg. ). What to do... Hopefully this experience will keep her away for a few days, so I released her at the cabin around 1030h and she took off.



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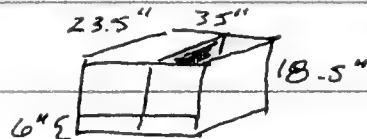
May 19  
(cont.)

up Madrone Canyon. Returned to lab to prepare S. ornatus mortality.

				18 (pm)	19 (am)	# ind
Summary of results on MC:						
<u>P. californicus</u> :				6 captures	11 capt	14
<u>P. truei</u> :				6 "	7 " (1 new)	8
<u>P. boylii</u> :				5 " (1 new)	16 " (1 new)	18
<u>N. fuscipes</u> :				1 " (1 new)	3 " (1 new)	4
TOTAL:				18 (2 new)	37 (3 new)	44

I brought back from the grid ♂ #1128 and put him in a cage (see spp Acct).  
Spent the afternoon on paper work & finished the second enclosure.

The dimensions of this new box are the following:



(The design is the same as the old box)

Today was sunny and warm (<sup>lower</sup> ~~upper~~ 90's). I reset RC drift fence traps from 1715 to 1745h - I set 4 more folding shermans on the west drift fence. Reset all MC traps from 1800 to 1900h. Marco showed up around 1900h this evening.

2235 - out checking traps on MC. Clear, calm, low 50's, two ~~was~~ moon just setting (1/4 full). Not much activity, only 10 animals. Finished by 2315h.

May 20

0615h - out checking traps on MC. It's clear, calm, and 50's. A few traps turned (1-5) on MC this am. See spp Acct for radio-collars put on.

0745h - while driving down the lane to Grid RC we came across 9 Sus scrofa

(2 ♀♀s, 7 piglets) along the lane ~200m west of the "Y". 7 of them

scattered to the creek bed, 2 up School Hill. Finished checking

RC traps by 0830h and then moved the captive animals from the old house (which is being reconstructed) to the lower barn. Returned to lab to look at vaginal smear collected this am.

				19 (pm)	20 (am)	# ind
Summary of results on MC:						
<u>P. californicus</u>				4 capt	10 capt	12
<u>P. truei</u>				4 "	7 " (1 new)	9
<u>P. boylii</u>				2 "	13 "	13
<u>N. fuscipes</u>				0	1	1
TOTAL				10	31 (1 new)	35



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May 20 This afternoon was clear and hot!  $94^{\circ}$  on ~~the~~ grid MC and at least  $98^{\circ}$  at the cabin. We took it easy most of the afternoon. Got <sup>the</sup> 150 traps together from Bob Jones and numbered them.

Reset EC drift fences around 1730h. From 1800 to 1900h I reset all the traps on MC while Marco got radio-locations on the collared animals (see Telemetry Data).

2240h - out checking traps on MC. It's clear, low 60's. Moon is  $\frac{3}{4}$  full and setting in the west. Finished checking traps by 2320h.

Marco finished up with some telemetry locations (see Telemetry data)

May 21 0605h - out checking traps on MC. It's clear, calm, mid 50's.

We picked up the folding Shermans as we checked traps and closed all of the non-folding Shermans. Started checking EC drift fences by 0730h and finished by 0815h.

Summary of results on MC =	20 (Lpm)	21 (Sun)	# ind
<u>P. californicus</u>	4 captures	4 captures	6
<u>P. truei</u>	4 "	5 "	6
<u>P. boylii</u>	6 "	11 "	15
<u>N. fuscipes</u>	1 "	3 " (1 new)	4
TOTAL	15 "	23 "	31 captures

Fewest captures of the 5 nights of trapping - apparently the heat is decreasing activity. We went into town this am for groceries and took it easy in the afternoon in prep for telemetry tonight. Today was another scorcher -  $98^{\circ}$  at the mailboxes. We reset all drift fence traps from 1800 to 1900h. Marco set up things for telemetry (see Telemetry data). Marco took off for telemetry around 2100h. I'll be joining him later - - -

May 22 0210h - out on MC for telemetry - it's clear, low 50's, no moon. Pretty night. (see Telemetry Data).





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May 22

0540h - light enough to check traps and give 2 released animals chance to come back down if they want to (see telemetry data). Checked traps, got one more radio-location, and headed to RC to check traps. Finished checking all traps by 0700h and returned to lab to bleed new *P. californicus* and take smear from #1135. I got some sleep this am and Marco picked up all the non-folding Shermans on MC in prep for dispersal trapping tomorrow. Today was much cooler, high in the (thin, high clouds) upper 80's - very pleasant. This PM we prepared a road-kill *Lynx rufus* that Mark Stromberg collected (cat # 8102) - actually Mark found it barely alive and shot it. We froze the cleaned skin for Bob Jones to prepare. Cleaned up the doll-house this PM for Ellie Steinberg, my new field assistant who arrives Tuesday. Reset RC drift fence traps around 1730 and MC drift fence traps around 1800h. Marco got things set up for telemetry and I replaced the paper on the hygrothermograph. 2100h - Marco headed out for telemetry. I'll go out later in the early am.

May 23

0305h - out on MC for telemetry. It's clear, <sup>no moon</sup> calm, low 50's. See telemetry data for details. 0520h - good telemetry data this am. Everyone seems settled down and it is light enough to see w/out flashlight, so will start checking traps. Took one more telemetry reading at 0600h and headed to RC drift fences. Finished checking RC drift fences by 0720 and returned to lab to take vaginal smear from #1135 ♀. Spent most of the morning cleaning up the cabin in prep for 8 people coming from MVZ for dispersal trapping tonight and tomorrow night. (at least 1km)  
The basic idea is to trap up and downstream from each of the drift fences looking for previously tagged *P. californicus*. We will also tag any



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(Cont)

untagged P. californicus, as well as examine all other species for toe-clips.  
Each transect will consist of 2 traps per station with 20m between stations. Tomorrow we will move each station 10m <sup>further away from the grid</sup>. I have cut 20m sections of rope to make these distances as precise as possible, so I will know how far from the grid the animals have moved.  
People were late arriving, so we didn't get started until around 1630h. Alex, Bernie and I set traps away from MC grid, and Bill, Marco, Warren, & Francis did RC. We didn't finish setting all traps until after 1900h - alot of work. (see 24 for details on transects). Marco & Alex went out later in the evening for telemetry (see Telemetry Data), but only for a short while.

May 24

Out checking and traps in Madrone Canyon w/ Bernie & Alex. It's clear, calm, mid 50's. Finished checking all traps by 1015h and returned to lab to prepare mortalities. Great results this am, we caught a total of 6 tagged P. californicus (see Data sheets for details). ~~the~~

Details on the trap lines are as follows:

I TRANSECT DOWNSTREAM FROM RC (set by Marco and Warren Hayes)

	# stations	# traps
Stations 2-34 along Robertson Creek	17	34
32-24 upstream along Finch Creek	5	10
36-98 downstream along Finch Creek ends at the horse ranch along Valley rd.	32	64
TOTAL	54	108

II TRANSECT UPSTREAM FROM RC (set by Francis Villablanca & Bill Liddell)

Stations 2-110 along Robertson Creek	55	110
ends before cutoff to Robinson House		

III TRANSECT DOWNSTREAM FROM MC (set by me, Alex Yu, Bernard Peyton)

Stations 2-22 stops at Bunk house	11	22
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$$\begin{array}{r} 29 \\ 2 \overline{)58} \\ 10 \end{array}$$

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May 24 II Transect upstream from MC along Main Canyon (set by Mr. Bernie, Alex)  
(cont) Stations Traps

Stations 2-34 within Hastings

36 at Hastings boundary

38-58, skipping St #40 (no habitat  
for Peromyscus, open grassland)

28

56

(Buckeye Hill Arroyo).

VI Transect up (east) tributary arroyo leading to MC. Starts at about  
Station E-10 on the MC east fence (set by Mr. Bernie, Alex)

Stations 2-40 all off Hastings

20

40

TOTAL for all transects

118

336 traps

We took it easy around mid-day and then reset all transects from 1600 to 1800 hrs, moving all stations 10m. Some stations were left as is or traps split between adjacent 10m stations if the habitat was good or a P. californicus was caught. We went out on MC around 2130 to play with the night vision goggles and Marco did telemetry. Returned around 2300h.

May 25 0630 - out checking traps. It's overcast, low 50's. Finished checking and picking up all traps by 1100. Returned to lab to bleed 1 new P. californicus from RC and an old one trapped up Madrona Canyon that has never been tagged. 3 more tagged P. californicus were caught this am (see data sheets for details), an additional tagged P. californicus ~~was~~ escaped before positive id on Robertson Creek. We should trap this area again to see if it is a disperser or tagged individual. All in all - GREAT RESULTS and a lot of fun. Everyone pulled out of here around noon. Elli Steinberg, my new field assistant, arrived today. She is scheduled to stay for 2 months.

We reset RC drift fence traps from around 1730 hrs and Marco set 6 traps 200m downstream to try and catch the P. californicus that escaped this am (see above).



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May 25 (cont.) We reset MC drift fence traps around 1800h. Marco set 4 traps in the SW corner of the grid to try and catch ♀ #1128 to remove her collar and ♂ #1106 to figure out what happened to his collar.

Marco & Ellie went out at 2045h for telemetry (see data sheet) and will be joining them at 0200h.

May 26 0200h - met up with Marco on MC for telemetry. It's clear, calm, low 50's. Moon is  $\geq 1/2$  full and just setting. See telemetry data.

Started checking MC drift fences around 0520h. Took out more telemetry readings before returning to meet up with Marco & Ellie at 0630h.

42° this am, and fog has moved in. We caught 3 *P. californicus* in the traps set downstream from GRID RC (see Dispersal Data sheets), 1 new one and 2 tagged ones that we previously caught by Warren's Marco. So, the tagged animal that escaped from Warren yesterday am was probably not a new disperser.

Finished checking RC drift fence by 0800h and returned to lab to take vaginal smear from #1135 and stuff ~~sex~~ mortality.

Marco and I got some sleep around noon. Today was partly cloudy, breezy, and considerably cooler than previous days (low 70's). This afternoon we cleaned up all the folding Shumans

borrowed from Bob Jones and put the non-folding Shumans used on dispersal transects back on MC. Reset MC drift fence traps around 1630h and picked up the hygrothermograph on MC.

Reset RC drift fence traps and set all grid traps from 17-1800h.

Set up the hygrothermograph on RC at station 6, 13.

2210h - out checking traps on MC. Clear, calm, low 50's, moon is  $\sim 3/4$  full and directly overhead. Finished around midnight and headed home (see Journal for 27 May for *S. buckmani* found).





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May 27 0640h - Ellie & I are out checking traps on RC. It's clear, calm, low 50's. Marco is checking MC and he will head back to Berkeley when finished. Marco stopped by RC before leaving around 0730h. Ellie handled all animals on RC this am & did a super job. We finished checking all traps by 1000h & returned to lab to bleed new animals. Summary of results on RC:

	20 (pm)	27 (am)	# und.
<u>P. californicus</u>	6 (capt (new))	11 (2 new)	15
<u>P. boylii</u>	8 (1 new)	16 (2 new)	22
<u>N. fuscipes</u>	3	6 (2 new)	9
<u>Perognathus</u>	0	1	1
<u>Microtus</u>	3	3	5
TOTAL	20 (2 new)	37 (6 new)	52

We bled the 3 new animals and I returned them to their capture sites in good shape around noon. Ellie took a vaginal smear from the captive female. We then prepared a S. bachmani we found next to a trap at station 5. We last night while checking traps. It had one puncture hole with little blood visible beneath its left ear and the top back of the cranium had hemorrhaged tissue, but the skull appears intact. No idea what killed this. Perhaps it was attacked, escaped, but then died next to the trap (?). Prepared it as a study skin (Cat # 874).

Today was sunny and warm (low 80's). We reset MC drift fence traps around 1700h, and all traps on Grid RC from 1730 to 1630h.

2215h - out checking traps on MC. It's cool (low 50's), calm, moon is 3/4 full and overhead. Finished checking traps by 2340h and headed home.

May 28 0615h - out checking traps on MC. It's foggy calm, low 50's this am. Finished checking all traps by 0845h and returned to take vaginal smear from #1135.



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(cont.)

	<u>27 (Pm)</u>	<u>28 (Am)</u>	<u># ind</u>
Summary of results on RC: <u>P. californicus</u>	8 captures	12 capt	14
<u>P. boylii</u>	15 "	21 " (4 new)	28
<u>N. fuscipes</u>	2 "	5 "	6
<u>Microtus</u>	1 "	5 "	6
TOTAL	26 "	43 " (new)	54 ind

Ellie took off today and I took it easy with Mel this afternoon. Today was partly cloudy and cool (mid 70s). I set RC traps from 1700 to 1900h & MC drift fence traps from 1910 to 1930h. Low clouds moved in later and it began raining & drizzling around sundown.

2155h - out checking traps on RC. It's raining lightly and cool (low 50s). Finished by 2300h.

May 29 0630h - out checking traps on MC drift fences. It's cloudy, breezy, mid 40s, ~~low 50s~~ and raining off & on. Finished checking all traps by 0915h and returned to lab to take vaginal smear from ♀ #1135.

	<u>28 (Pm)</u>	<u>29 (Am)</u>	<u># ind</u>
Summary of results on RC: <u>P. californicus</u>	7 captures	12 capt.	15
<u>P. boylii</u>	12 (1 new)	19 (3 new)	25
<u>N. fuscipes</u>	0	3	3
<u>Microtus</u>	1	8	9
<u>P. maniculatus</u>	0	1	1
TOTAL	20 captures (new)	43 (3 new)	53 ind.

It remained partly cloudy, breezy, and cool today. I took it easy today - Mark's Shorty's Memorial Day Party was this afternoon. I wumped out this afternoon and decided to close all traps on grid RC and resume trapping tomorrow after I'd leave. I think I need ~~the~~ sleep - I ~~can~~ am beat! So, all traps were left closed this evening.



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May 30 Memorial Day. Woke up to clear skies this am. Mel left around 0930h. I took a vaginal smear from ♀ #1135, and then got an exact location on the radio-collar that slipped off of #1186 (see Sp. Acct). I also checked all pit fall cans on drift fences before noon. Spent the afternoon catching up on field notes, etc. Ellie arrived back down around 1600h this afternoon and we reset all RC traps from 16300 to 18000 (many of the traps had to be cleaned out), and MC drift fence traps around 1815h. 2210h - out checking traps on RC. The <sup>(close to)</sup> full moon has just risen and <sup>it</sup> is very bright! Low (low 50%). We finished checking traps by 2310h and headed home.

May 31 0615h - out checking traps on MC drift fences. It's clear's calm, low <sup>40%</sup> ~~50%~~. Finished checking traps by 0900h and returned to lab to take vaginal smear from #1135, and to show Ellie how to prepare study skins.

	30 (PM)	31 (AM)	# ind
Summary of Results on RC: <i>P. californicus</i>	10 captures	10 capt.	14
<i>P. boylii</i>	7 " (1 new)	15 "	10
<i>N. fuscipes</i>	2 "	7 "	7
<i>Perognathus</i>	0	2 "	2
<i>Microtus</i>	3 "	3 "	6
<i>P. maniculatus</i>	1	0	1
<i>D. megalotis</i>	0	1 (1 new)	1
TOTAL	19 (1 new)	38 (1 new)	47 total

In the afternoon, Ellie and I flagged out transects east (upstream) and west (downstream) of grid RC. Each transect has 10 m between stations (measured with a tape). The transect west has 32 stations (320 m) and east has 20 stations (200 m). Ellie will trap these next week for tagged *P. californicus*. Today was ~~etc~~ mostly clear, upper 80s - Very nice. We reset all RC traps from 17-1800hrs; MC drift fence traps from 1815 to 1830hrs.



Hastings Reservation, Monterey Co., Calif.

May 31 (cont) 2210h - out checking traps on EC. It's clear & calm; mid 50's. The full moon (Blue Moon) is just rising. We finished checking all traps by 2310h and headed home.

June 1 0615h - out checking traps on MC drift fences. It's ~~clear~~ mostly clear (some high clouds) and, calm, low 50's. We picked up all folding Shermans and opened up all the non-folding Shermans on EC. Finished checking traps by 0930h.

Summary of results on EC:		31 (PM)	1 (AM)	# and
<u>P. californicus</u>	8 captures	11 capt	14	
<u>P. boylii</u>	18 "	16 "	18	
<u>N. fuscipes</u>	0 "	6 "	6	
<u>Microtus</u>	2	0	2	
TOTAL		18 "	33 "	40 ind.

I got packed up & cleaned and headed for Berkeley by noon.

See Ellie's field notes for activities in my absence.

June 7 I arrived back down at Hastings around noon under partly cloudy skies. Looks like rain for this afternoon. Ellie and I spent all afternoon at Asiloma at the Evolution meetings. We got back around 1800h and hustled to set traps on grid WR. We finished WR by 1930h and reset EC & MC drift fence traps from 1830 to 2015h. It was clear and cool (low 40's) this evening.

June 8 0545h - out checking traps on MC drift fences. Started checking traps on WR by 0700h. Since we are going into Asiloma again today, I opted to not bleed new P. californicus on WR this am. We finished WR by 0900h and returned to the lab to bleed a new (#1286) P. californicus on MC drift fence. Ellie released it in good shape around 0930h.





RIBBLE, D.O.  
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June 8 (cont) Summary of results on WR: P. californicus: 10 captures (3 new)

P. truei 12 " (4 new)

P. boylii 4 " (1 new)

N. fuscipes 8 " (4 new)

TOTAL 30 " (12 new)

We spent all day at Asiloma for the Evolution meetings.

We reset WR traps from 18-1900h, and drift fence traps (MC & EC) from 1915 to 2000h. Last, we set 8 traps <sup>under</sup> the bunkhouse to try and catch a pair of animals for captivity. Ellie is going to check these later this evening.

June 9. 0600h - out checking traps on MC drift fences. It's clear, calm, low 40's.

Results on transect beneath bunkhouse:

New 1327 P. californicus ♀ 500 up, nullip. 30g. Ear-tagged & released.

Ellie also caught a ♀ in this area which she put in captivity last night (see notes on capture animals)

We finished checking traps on WR by 0830h and bled 2 <sup>new</sup> animals at the truck and returned them to their capture sites around 0900h.

Returned to the lab to spin down blood and prepare Sorex mortality from

June 14. Summary of results on WR: P. californicus: 8 captures (1 new)

P. truei : 10 "

P. boylii : 4 "

Perognathus : 3 "

N. fuscipes : 8 " (2 new)

TOTAL 29 " (3 new)

A lot of traps on WR were turned over by woodrats - need to set out some National traps this PM. Today was mostly clear and warm (upper <sup>70's</sup> ~~60's~~) lower 80's



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June 9  
(cont) From 1530 to 1800hrs Ellie & I cleared poison oak from WR and set traps. We also added 6 Neotoma trap boxes across the grid. Reset RC & MC drift fence traps from 1815 to 1900hrs. We also reset the traps beneath the bunkhouse with peanut butter.  
2300h - out checking traps below bunkhouse. It's clear, low 50s, no moon.

New 1331. ♂ Mature (early), TWD. 36g.

1207 ♂ Early Mature, TWD. 35g. \* This animal was caught June 8 on the drift fence! See species acct.

June 10 0600h - out checking traps below bunkhouse. It's mostly clear (some scattered high clouds), upper 40s. The moon (< 1/8) is overhead.

New 1332 ♂ Mature, TWD. 37g. Green powder visible in ears. - KEPT FOR CAPTIVITY

Started checking traps on WR around 0730h and finished by 0930. Bled 2 new P. californicus at truck and released them around 1000h.

Returned to lab to spin blood. Summary of results on WR: P. californicus - 7 (apt + 1 new)

P. truei - 15 " (4 new)

P. boylii - 3 " (2 new)

Perognathus - 2 "

N. fuscipes - 10 " (1 new)

TOTAL - 37 (8 new)

The Neotoma traps seemed to make a difference, although there were still a lot of traps turned.

Ellie took off this afternoon for the weekend and I worked on paperwork and laundry. Today was clear, breezy, mid 80s.

I reset traps on WR from 1630 to 1730h. and took I took one of the National traps out of each Neotoma box and set it at a different station (going 12 stations with woodrat traps).

Reset RC & MC drift fence traps from 1745 to 1830h.

$$\begin{array}{r} 36 \\ 15 \\ \hline 21 \end{array}$$

Hastings Reservation, Monterey Co., Calif.

June 11 0550h - out checking traps on MC. It's foggy, mid 40's. Starting checking traps on WR by 0700h. Fog burned off by 0800h. Finished checking all traps by 0900h and bled new P. californicus (#1338) at truck. Returned to lab to spin blood and prepare Neotoma mortality.

Summary of results on WR:

<u>P. californicus</u>	:	10	"	(1 new)
<u>D. truei</u>	:	11	"	(1 new)
<u>P. boylii</u>	:	2	"	
<u>Microtus</u>	:	2	"	(2 new)
<u>E. megalotis</u>	:	1	"	(1 new?)
<u>Perognathus</u>	:	3	"	(1 new)
<u>N. fuscipes</u>	:	12	"	(5 new)
<hr/>				
TOTAL	:	41	"	(11 new)

Much better results with fewer traps turned than. Checked on the ~~traps~~ captive animals before lunch and discovered that the recently caught pair is missing! Should set traps in the barn tonight.

Today was cooler than yesterday, low 80's, and clear.

Reset WR traps from 17-1800hrs and all drift fence traps from 1815 to 1900hrs. I also set 15 traps inside the barn for the escaped captive animals.

As the sun set a huge fog cover set in, cooling temp. down.

June 12 0550h - out checking traps on MC drift fences. It's clear, calm, upper 40's. Had a new lactating ♀ on DC drift fence (#1343) which I bled and checked (see spread). Didn't start on WR until ~0800h. Picked up traps on WR after ~~setting~~ checking them, bled 2 animals at truck and released them, and returned to lab ~1130h to spin down blood. Summary of results on WR:

<u>P. californicus</u>	:	12	"	(1 new)
<u>P. truei</u>	:	9	"	(2 new)
<u>N. fuscipes</u>	:	10	"	(3 new)
<u>P. boylii</u>	:	3	"	
<u>Perognathus</u>	:	3	"	(0)
<hr/>				
TOTAL	:	37	"	(5 new)



Hastings Reservation, Monterey Co., Calif.June 12  
(cont)

Spent the afternoon on paper work &amp; house cleaning...

Today was warm (upper 80's) and breezy. I reset RC drift fence traps from 18-1830h, reset the traps in the barn and added 21 more for a total of 56 traps, and finished by resetting MC drift fence traps from 19-1920h. No traps to check tonight.

June 13. 0615h - out checking traps on MC drift fences. It's clear, calm, low 50's.

Caught the escaped female in the lower barn. Returned her to the enclosure and picked up all the traps. Finished checking RC drift fence traps by 0800h. Went into town this am to get film developed.

This afternoon Ellie and I finally began making habitat measurements on MC. We took 3 hrs to complete 20 stations, rows 5 & 6. Clin

sure it will take longer further up the grid. At least we started

this chore. The upper part (rows 9, 10) of the grid is starting to dry out. The ferns are dying and the leaves on the bracken are turning yellow. This seems to have happened quickly - first signs of summer drought.

Today was clear and hot (low 90's). We set out traps on MC after finishing habitat work, from 1700 to 1800h. We reset RC drift fence traps from 1815 to 1830h.

2240h - out checking traps on grid MC. It's clear, warm (low 60), and no moon (tomorrow tonight is new moon). Finished by 2345h and headed home.

June 14 0600h - out checking traps on RC drift fences this am (first). It's clear, calm, low 60's (still warmish). Returned to check traps on MC around 0700h and finished checking all traps by 0840h.

		13 (pm)	14 (am)	# ind
Summary of results on MC.	<u>P. californicus</u>	4 capt	5 capt	7
	<u>P. truei</u>	0	3 "	3
	<u>P. boylii</u>	10 capt (2 new)	13 " (5 new)	19
	<u>N. fuscipes</u>	2 " (1 new)	1 "	3
	<u>Pezomachus</u>	0 "	1 " (1 new)	1
TOTAL		16 capt (3 new)	23 " (6 new)	33 captures





Hastings Reservation, Monterey Co., Calif.

June 14  
(cont)

Ellie checked on the captive animals this am and I worked on my ASM presentation. Today was another hot one, low 90's. I worked on my ASM presentation all afternoon and Ellie went into town.

We reset traps on MC from 1715 to 1800h and RC drift fence traps from 1815 to 1830h.

2230h - out checking traps on MC. It's clear, low 60's, no moon. Finished by 2340h & headed home.

June 15

0600h - out checking traps on RC. It's partly cloudy, a bit ~~colder~~ <sup>colder</sup> than yesterday. Started checking traps on MC around 0700h. Finished checking traps by 0845h and I returned to the lab to photograph some slides for ~~my~~ <sup>my</sup> ASM talk and Ellie checked on the captive animals. At 1000h we bled 2 new animals (1 from MC, 1 from RC) in the lab.

Summary of results on MC:	14 (PM)		15 (AM)	# ind
	4 captures	10 captures (1 new)	13	
<u>P. californicus</u>				
<u>P. truei</u>	1 "	0 "		6
<u>P. boylii</u>	8 " (1 new)	16 " (2 new)		20
<u>N. fasciatus</u>	1 "	3 "		4
<hr/>				
TOTAL	14 " (1 new)	35 " (3 new)		43

We released the new animals around 1130h in good shape. Today was partly cloudy in the am, clear in PM, but warm (low 90's). We worked on habitat measurements from 14-1800h this afternoon on 4210 MC. Finished all of new 10 and new 11 - grab the bitch for the rows! Reset traps on MC from 18-1900h. Found a king snake in a trap at station 9.8; and a dead *Spermophilus* in a trap at 5.5. I returned to the lab to prepare it (lat #890) while Ellie reset RC drift fences.

I gave a practice talk this PM and Ellie and it went great! Decided to go out early in the am, and not tonight.



RIBBLE, D.O.  
1980

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Hastings Reservation, Monterey Co., Calif

June 16

0500h - out checking traps on MC. It's foggy, low 50's. It is barely light enough to walk w/out flashlight, but flashlight needed to see animals. Finished checking traps on MC by 0700h and checked DC drift fence traps.

Summary of results on MC: P. californicus: 7 captures

P. truei : 6 "

P. boylii : 19~~20~~ " (1 new)

N. fuscipes : 3 "

---

TOTAL : 35 " (1 new)

Ellie checked in the lab animals and we took it easy the rest of the am.

The fog didn't clear until 1100h this am and the rest of the day was clear, upper 80's. We worked on habitat measures on MC from 13-1700h this afternoon, finishing row 9 and ~~the~~<sup>5</sup> stations of row 8 (21 stations remaining). Reset ~~the~~ MC traps from 1700h to 1745h. I set the large carnivore National trap near station 8, 12 since we've had a few (~10) traps turned. Also, found ♀ # 1205 in a trap at 8, 17. Apparently Ellie thinks she checked both traps at this station, so perhaps she entered the trap which is located in a ~1m diameter log during the day. She was released in good shape. Reset DC drift fence traps from 18-1830h -

2240h - out checking traps on ~~the~~ MC. It's clear, calm, low 50's.

Caught a ♀ Urocyon in the large trap - not a happy camper. . . .

Finished by 2345h and returned ~~to~~ a new P. californicus to the lab to bleed tomorrow am, and returned the Urocyon to the Calm to release away from here.



Ribble, D.A.  
1980

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June 17 0545h - in bleeding ♂ #1352 in the lab before we get started this am so we can release him when checking traps. Started checking traps on RC drift fences by 0615h. It's foggy, low 50's this am. Finished by 0840h.

Summary of results on MC.

	<u>6/18/80</u>	<u>6/17/80</u>	<u># ind</u>
<u>P. californicus</u>	2 capt (1 new)	7 capt	9
<u>P. boylii</u>	10 capt (1 new)	18 " (2 new)	24
<u>P. truei</u>	4 "	5 " (2 new)	7
<u>N. fuscipes</u>	2 "	3 "	5
<u>Perognathus</u>	0	1	1
TOTAL	19 (2 new)	34 " (4 new)	45 <sup>ind</sup>

I packed up and loaded to Berkeley today around 1100h. See Ellie's Journal for action in my absence - - - - -

June 25 Arrived back today at 1500hrs. The mammal meetings were informative and the break was nice! Ellie left yesterday, so the drift fence traps were left closed blocking passageways. I loaded up the truck with traps, etc, and checked on the captive animals - both females are pregnant! (See notes on individual animals). I set traps on RC and RC drift fences from 1645 to 1830hrs. <sup>(changed hygrograph paper)</sup> The amount of new growth of blackberry, clover, and poison oak across our trails is impressive - need to cut it back tomorrow. Set MC drift fence traps, finishing by 1900h. The moon is  $> \frac{1}{2}$  full and overhead (~120'clock) when the sun set around 2030h.

June 26. 0600h - out checking traps on MC. It's clear, calm, low 80's. Started checking traps on RC by 0630h - finished around 0930h and returned to lab with 3 new animals to bleed and 1 mortality to prepare. Released the new animals around noon (all in good shape) at their capture sites. Checked on the lab animals on my way home for lunch.



24 June, 1998

DAVE -

Here's what I did while you were at the fuzzy creatures meetings . . .

\* I FINISHED MAPPING THE WOODRAT NESTS ON MADRONE CANYON - I also went back to our data from June 13-18 on the grid and included on the maps where we caught *N. fuscipes*. Each "✓" indicates one capture; + the # of the animal follows.

\*\* I trapped ~50m east of MC western drift fence (#ing from fence → east + ~50m west of MC eastern fence (#ing from fence → west)

and ~50m east of RC western drift fence, with an extra set of traps on the northern bank of the creek (~10m from fence).  
MC: I caught *P. californicus* (#1216) ~40m from ~~the~~ MC eastern drift fence near the path; (#1184) ~10 meters to the right of where #1216 was trapped, near a woodrat nest + (#1352) was caught ~20 meters from the eastern fence near the large log visible from the path.

RC: A mature ♂ *P. californicus* that had lost his ear tag, was re-tagged (#1355). He and ♀ (#1279) were on the northern bank of the creek where you told me a pair had been living in the past.

→ I put flags up at all stations -- they do not necessarily follow a straight line...

\*\*\* I <sup>cleaned</sup> changed the captive animals cages on June 23<sup>rd</sup>. They are getting quite chubby!!!

\*\*\*\* I botched up + didn't move the hygrothermograph until Mon. Sorry. I also forgot to write the initial date + time, but I wrote it on the corner... (oops.)

\*\*\*\*\* It rained one night (w/ thunder + lightning none-the-less!) so I gathered wooden boards to cover the traps. I left some of the ones from madrone canyon grid (row 8) at RC drift fence (west) because they seemed more useful + necessary there.

\*\*\*\*\* There is a dead *Onychomys* (young one) in the freezer that I found in a pitfall trap. Didn't know what to do with him... (her?)

Also: Summary of Results on MC while you were gone -

	17 (pm)	18 (am)	# ind
<i>P. californicus</i>	2 capt	4 capt	5

<i>P. boylii</i>	9 "	6 " (1 new)	13
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<i>P. truei</i>	1 "	5 "	5
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<i>N. fuscipes</i>	1 "	1 "	1
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TOTAL	13 (1 new)	16 (1 new)	24 ind
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See you on Tuesday\*...

Ellie

P.S. oh yeah, here are your spare batteries.

is having a  
on Tues night,  
way -- shall be  
R.D. leaving soon.





RIBBLE, D.O.  
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June 26  
(cont)

Summary of results on RC: P. californicus - 13 captures (3 new)

P. boylii 23 " (7 new)

N. fuscipes 5 " (1 new)

Perognathus 2 " (2 new)

Microtus 2 " (0)

P. megalotes 1 " (1 new)

TOTAL 46 " (14 new)

The mortality this am was probably due to heat - should cover traps that are exposed on the east of the grid. It was interesting how much subcutaneous & abdominal cavity fat was present in him (Cat # 881). I have seen lab animals with less. Perhaps food is superabundant currently (?)

Today was warm (low 90's), clear, and breezy. Spent the afternoon getting organized.....

Reset RC traps from 1715 to 1900h - I cut away vegetation from the trails as I set traps. Also, squirrels have moved in along row B and they rolled several traps down the hill. Reset MC drift fence traps from 1910 to 1930h.

2245h - out checking traps on RC. It's clear, low 60's, moon  $\approx 3/4$  full and overhead - very bright! Finished by 2355 & headed home.

June 27 0600h - out checking traps on MC drift fences. It's clear, calm, 60°.

Started checking traps on RC by 0640h and finished by 0915h.

What a morning!! Caught a total of 5 new P. californicus, plus caught ♀ #1142 with a new bowlitter in the trap! (See spp Acct).

	26 (AM)	27 (PM)	# ind
Summary of results on RC. <u>P. californicus</u>	6 captures	15 captures (3 new)	18
<u>P. boylii</u>	13 " (2 new)	20 " (6 new)	31
<u>N. fuscipes</u>	3 "	7 " (5 new)	9
<u>Perognathus</u>	0 "	1 "	1
<u>Microtus</u>	1 "	2 "	2
TOTAL	20 " (2 new)	45 " (14 new)	61 ind



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June 27  
(cont.)

Returned to the lab to bleed all the new animals. Released them at their capture sites between 1130-1200h (all in good condition). Checked on the captive animals and ♀ #1135 finally gave birth to 2 pups (see notes on animals). Finished all of this by 1300h - quite the am.

I reset MC drift fence traps ~~from~~ around 1630 and Grid RC from 17-1800h. I set traps a bit early today to give time to visit Rancho Palo Escrito with M. Reynolds - nice! I'm not checking traps tonight - I want to see animals early to see powder (hopefully)

June 28. 0420h - out checking traps on RC. It's clear, calm, moon has set, mid 40's. Finished checking traps on RC by 0645h and moved on to check MC drift fence traps. Finished checking MC drift fence traps and returned (after breakfast) to the lab to bleed a new animal from RC drift fence.

Summary of results on Grid RC this am:

<u>P. californicus</u>	:	15	"	(15 new)
<u>P. boylii</u>	:	21	"	(2 new)
<u>M. fuscipes</u>	:	8	"	(1 new)
<u>Microtus</u>	:	2	"	

TOTAL: 46 captures (3 new).

~~Checked on the lab animals~~ Released the new animal at its capture site by 1000h and returned to check on the captive animals.

Today was sunny, warm (upper 80's), and breezy. Ellie got back from Oregon today. At 0630h we went up to Grid WR to determine where to put a min/max thermometer. At 1700h we began resetting Grid WR. We stopped at the hygrothermograph and tested out the sling psychrometer. 30 sec's seems accurate for swing time (we tested it against 60 sec's with same results). We also set 4 Neotoma ~~was~~ national traps at stations 6, 18; 9, 17; 5, 10; and 5, 9. Reset MC drift fence traps from 1830 to 1900h.



STEINBERG, EK  
1988

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Hastings Natural History Reservation, Monterey Co., Calif  
TEMPERATURE USING TAYLOR MAX/MIN THERMOMETER  
HUMIDITY USING SPAN PSYCHROMETER

	LOCATION	READING TIME	TEMPERATURE		REL. HUMIDITY			Comments
			MIN	MAX	WET	DRY	%	
July 7	Grid 8, 10: MC	0715 h	58	93 *	49	59	48	* Thermometer placed out at 1630h so hottest part of day perhaps missed.
	Grid 6, 13: RC	0900 h	48	95	60	76	38	
	WR	0950 h	54	95	60	78	33	
July 8	MC	0635 h	56	107	48	57	51	
	RC	0850 h	47	95	54	68	38	
	WR	0930 h	52	94	56	73	32.5	
July 9	MC	0700 h	56	107	50	60	50	
	RC	0850 h	47	93	58	70	48	
	WR	0930 h	54	93	62	78	39	
July 10	MC	0705 h	60	110	51	61	50	
	RC	0850 h	50	100	59	74	39.5	
	WR	0920 h	58	99	57	77	26.5	
July 11	MC	0700 h *	47	115	50	56	66	* traded thermometers between MC and RC.
	RC	0820 h *	46	96	54	64	51	
	WR	0850 h	52	96	54	65	48	
	WR	1650 h			59	73	41	
	RC	1710 h			59	73	41%	
July 12	MC	1725 h			58	73	39%	
	MC	0710 h	54	91	1540 60	73	44%	46% - 1 min
	RC	0820 h	45	86	1430 67	76	62%	30 sec swing
	WR	0855 h	50	85	1450 62	78	44%	1 min "
	WR				61	76	39%	30 sec
July 13	MC	0725 h	50	93	1700 h 61	74.5	43%	one minute
	RC	0845 h	52	88	61	74	60	wet dry %
	WR	0815	50	86	1730 59	72	45%	1715h 60 72 49%



Hastings Reservation, Monterey Co., Calif.

June 28 2240h - out alone on RC to check traps and release ♀ #1142 (See spp Acct)  
(cont). It's clear, calm, moon  $\approx$  full, mid 50's.

June 29 Finished checking traps by 0200h & headed home.

Ellie went out this am at 0545 to check traps. I joined her on RC at 0700h. It's clear, low 50's this am. We finished checking traps by 0900h and returned to the lab. to check on the captive animals (see data sheets - the other female gave birth!)

	28 (0m)	29 (0m)	# ind
Summary of results on RC: <u>P. californicus</u>	10 captures	10 capt	10
<u>P. boylii</u>	13 captures	23 " (2 new)	28
<u>N. fuscipes</u>	8 "	11 " (2 new)	13
<u>Perognathus</u>	0 "	1 "	1

TOTAL 31 captures 45 " (4 new) 58

I packed up and headed off to Berkeley around noon. Ellie is taking over for the next few days.

July 10 Arrived back this afternoon around 1730h. Nice, productive break in Berkeley.

Summer has definitely arrived at Hastings! All of the grass fields are brown and much of the shrubbery is losing leaves. Upper 90's and clear. I joined Ellie on land MC to help finish setting all grid traps. Finished & set RC drift fence traps around 1830h. We won't be checking traps this PM, just early AM.

July 11 0545h - out checking traps on MC. It is just light enough to see w/out flashlight, clear, calm, low 50's. The moon is  $\approx$  1/8 full and just rising in the east. We stopped while checking traps to take a humidity reading (sling psychrometer) and temperature reading. The min-max thermometer at this station has





Hastings Natural History Reservation, Monterey Co., Calif.

July 11  
(cont)

been reading abnormally high, so we are going to switch thermometers with RC. Finished checking all traps on MC by 0800hrs and proceeded to check RC drift fences, and take a humidity reading. 08<sup>40</sup>h - drove to WR to take humidity & temp reading. 0915h - weighed the babies. Returned to lab to bleed new P. californicus (#1379) from MC.

Summary of results on MC:

<u>P. californicus</u>	: 10 captures
<u>P. truei</u>	: 1 capture
<u>P. boylii</u>	: 20 captures (5 new)
<u>Perognathus</u>	: 3 captures (1 new)
<u>N. fuscipes</u>	: 3 captures

TOTAL : 37 captures (6 new)

Good results on MC! Not many traps rolled or shut with no animals.

Released #1379 at its capture site in good condition at 1115h.

Today was clear, breezy, high in the mid 80's (cooler than previous days)

From 1645 to 1715h I went from grid WR to RC to MC to take humidity readings. This seemed to work well. From 1730 to 1845hrs I reset MC grid traps while Ellie ~~set~~ patched holes in the drift fences. From 1850 to 1930hrs we set a series of traps on grid RC (roughly from 5,10 to 5,17 to 9,18 to 9,7) for a spot check on animals, and the RC drift fence traps. Finally, set 2 traps in each of the enclosures for a powder transfer experiment (see spreadsheet).

2300h - out checking traps on RC. It's clear that we ~~to~~ closed all traps as we checked them. Finished by 2330h and returned to the barn to release females back into enclosures (see data on <sup>capture</sup> animals).



R1B3LB, D.O.  
1989

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July 12 0545h - out checking traps on MC. It's clear, calm, low 50s.  
Finished checking traps on MC by 0800 and proceeded to check RC drift fence traps. Checked thermometer on WR around 0900h and returned to lab to weigh captive animals, etc.

Summary of results on MC: P. californicus : 8 captures  
P. boylii : 24 " (2 new)  
P. truei : 5 "  
N. fuscipes : 2 "  
Perognathus : 2 " (1 new)  
TOTAL: 41 captures (3 new)

Again, good results with few traps closed but no animals.

Today was similar to yesterday - clear, breezy, mid 80s.

From 1430 to 1515h I took humidity readings on all 3 grids.

It seems it makes a difference if the psychrometer is swinging 30 sec vs 1 min. I assume 1 min is "more correct", but I should call Fousty Suppliers to check.

From 1515 to 1800h we finally finished up the habitat measurements on Grid MC; all that is left is to record location & dbh of Laurel trees. Reset MC traps from 1800 to 1700h and RC spot check traps & drift fence traps from 17-1830h. We'll be going out on RC @ 0500h tomorrow to hopefully give more animals a chance to enter traps.

July 13 0500h - out checking traps on RC. It's clear, calm, low 50s. Finished checking grid traps by 0540 - just before it's light enough that the black light is ineffective. Checked the drift fences and moved on to MC around 0615h. Finished checking MC traps by 0800h. Ellie weighed the babies while I checked the min/max temp on Grid WR.



Hastings Natural History Reservation, Monterey Co., Calif.

July 13  
(cont)

Summary of results on MC: P. californicus : 9 captures  
P. boylii : 26 " (2 new)  
P. truei : 6 " (2 new)  
N. fuscipes : 1 "  
Perognathus : 3 " (1 new)  


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TOTAL 45 " (5 new)

We took it easy and rested the remaining AM....

This afternoon we began ~~work on MC~~ measuring the location and dbh of all buckeyes and Laurel trees on 17010 MC. The distance from each tree to the nearest <sup>2</sup> stakes was recorded. Dbh of Buckeyes was recorded by taking the mean of all dbh measures on all trunks  $\leq 3.5$  cm. We calculated the mean with a calculator in the field, thus we only recorded the mean and sample size. I measured dbh by sighting with a metric tape. Stanback came up this PM; we cut a hole in the buckeye at station 10,6 to retrieve the radio-collar of ♀ # 1186 (see spp acct).

Took humidity measures on all grids between 1700-1740h. Today's readings are the first correct humidity measures - called Fossby Suppliers and got the proper instructions. The <sup>wet</sup> bulb should be soaked with H<sub>2</sub>O equilibrated to air temp, and then swung. It should be swung until the wet bulb reaches a constant temperature (stop every 20 sec; check).

Today was sunny, low 90's (warmer than previous days). Reset MC traps from 1800-1845h, and PC traps from 1700-1720h.



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July 14 0500h - out checking traps on RC. It's clear, calm, no moon, mid 80s.

Started checking traps on MC by 0620h, finishing by 0810h. I returned to the lab to bleed a new P. californicus from MC (#1381) and Ellie went to weigh babies. Summary of results on MC:

P. californicus : 10 captures (1 new)  
P. boylii : 30 " (1 new)  
P. truei : 3 "  
N. fuscipes : 1 "  
Perognathus : 1 "

TOTAL 45 captures (2 new)

Today was warm (low 90s), clear, and breezy. From 1330 to 1700h we worked on robot measures on MC (dispersion & size of buckeyes and bay trees). From 1700 to 1600h we took humidity readings on all 3 grids. Reset all MC traps from 1600-1645 and RC traps from 1645-1715h.

July 15 0500h - out checking traps on RC. It's clear, calm, no moon, low 50s.

Finished around 0600h. At station 6, 14 a Neotoma was caught by the tail going out and something ate its  $\frac{2}{3}$  anterior of the body (hind limbs, pelvic girdle, and tail remaining). It was a mature female with 3 uterine scars (2l, 1r).

Picked up traps on MC as we checked them, finished by 0800h. I went to check the max-min thermometers on WE vehicle Ellie weighed babies. Summary of results on MC:

P. californicus : 8 captures  
P. boylii : 23 captures (2 new)  
P. truei : 3 "  
Perognathus : 2 "  
36 " (2 new)


(Several (~12) traps were closed with no animal. A skunk scat was found on a trap at 10.5 and skunk odor was prevalent across the grid, so presumably a skunk closed many of the traps).





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July 15 Ellie took off today for the weekend. The next few days (cont) I will only be checking drift fence traps and working on papers. Today was warm (low 80's) and breezy. I went out from 1500 to 1530h to record humidity on all 3 grids.

Reset all drift fence traps between 18-1900hrs. On GRID RC I slanted a board across all trap openings on traps parallel to the fence to try and keep birds from pecking at the door (eg. .

\* I received instructions from Forestry Suppliers for the sling psychrometer. The dry bulb reading should be made before slinging the wet bulb for an ambient temperature reading. We have been reading the dry bulb temperature after slinging which must decrease the true dry bulb temperature. Thus, all previous humidity readings including today are wrong and should not be used.

July 16 0625h - out checking traps on MC drift fences. It's clear, calm, low 50's. Started checking RC drift fence traps by 0700h & finished by 0900h. Didn't check maximum temperatures on GRID WH. Went into town for gas this am, and returned at 0900h and weighed the babies. Melanie came in last night and we took off this afternoon to go camping on Chew's Ridge. '

July 17 1130h - upon returning I went and weighed the babies. Today is hot - 100° inside, the front porch of the cabin. 1600h - set out 11 pairs of traps around the lab and old barn to catch S. blecheyi. I'm trapping these to try and keep M. Stromberg from poisoning them. I'm going to try and preserve all of these as full skeleton specimens.



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RIBBLE, D.O.  
1989

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July 17  
(cont)

ill be setting and checking these off and on for the next few days.

il set MC & RC drift fence traps from 18-1900hrs. On MC, the thermometer read  $^{\circ}120^{\circ}$ , and the hygograph <sup>plateaued at</sup> ~~plateaued at~~ 110 (as high as it records). RC max was  $107^{\circ}$ . I reset each min/max thermometer to record a minimum ~~for~~ tomorrow.

Caught a total of 8 squirrels today (3 around bar, 5 around lab). I skinned one (skeleton only) and put the other 7 in the refrigerator to prep tomorrow.

July 18

0600h - out checking traps on MC. Clear, calm, low clouds. Started checking traps on RC by 0640h. Returned to lab to weigh babies. Spent the rest of the morning skinning 7 Spermophilus trapped around the lab last night. Jennifer Sagan helped me. Suzanne closed all the squirrel traps around 1800h. Didn't catch any this am.

Today was another hot one! Ellie got back around 1300h and we checked humidity readings on all 3 guinea <sup>reset squirrel traps 1500h.</sup> pigs. I had planned to work on habitat this afternoon, but it was too damn hot. We worked on computer data entry, instead, in the lab.

I had to go into town this evening, <sup>and</sup> Ellie reset the drift fence traps from 19-2000h.

July 19

0600h - in-out checking drift fence traps on MC. It's clear, calm, and 50%. Started checking traps on RC by 0635h. Ellie weighed the babies this am, and we met at 800 to begin work on RC habitat. Worked until noon and then took humidity readings on all three guinea pigs.

Today was a bit cooler than previous days, but still



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July 19  
(cont)

warm (upper 90's). We spent the afternoon skinning squirrels and working on the computer.

I reset traps on MC drift fences around 1900h, and Ellie reset RC drift fence traps around 1930h.

July 20

0605h - out checking traps on MC. It's clear, calm, upper 50's.

Starting checking RC traps by 0640h. Met up with Ellie and (saw a Saw-whet owl at 5:15!). we spent the rest of the am finishing habitat on RC. Took humidity readings on all grids from 1230 to 1315h.

Today was cooler than previous, high 90's. I spent the afternoon on the computer while Ellie set squirrel traps and cleaned out the captive animal cages. Caught 4 more Spermophilus today.

Ellie reset all drift fence traps around 1900h this evening.

July 21

0600h - out checking traps on MC. It's partly cloudy, mid 80's.

Started checking RC drift fence traps by 0630h. Only one animal, Perognathus, caught on the west drift fence - strange.... We turned to lab to pickup Ellie, and we started work on WR habitat. Finished 22 stations and took humidity readings on all 3 grids from 11-1200h.

Today was partly cloudy, but still very hot (upper 90's). We took it easy this afternoon in anticipation of night work this evening.

We set all traps on Grid RC from 17-1930h, then reset RC drift fences. We put 20 National traps across the grid at various stations. We put up an owl decoy (from W. Koenig) on the west drift fence to see if it would drive away any of the birds that are clearing traps. No luck, the birds



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1988

Journal - Weather Data

Hastings Reservation, Monterey Co., Calif.

Min/Max & Humidity Measures

	GRID	Time	TEMP		REL. HUMIDITY			Comments
			Min	Max	WET	DRY	Hum %	
July 14	MC	0740h <del>0800h</del>	54	96	1700h 61	75.5	42%	"what a mess." C1 → 75.5 = 42% 60.5 → 75 = 42% 60 → 73 = 46%
	RC	0555h → <del>1700h</del>	46	93	(1715) 60.5	75	42%	
	WR	1005	52	89	1730 → 60 <del>1730h</del>	73	46%	
July 15	MC	0720	53	97	1500h 62.5	82	32%	all of these are wrong, see Journal.
	RC	0545h	48	92	1520h 63	81	36%	
	WR	0850h	52	90	1530h 62	80	34%	
July 16	MC	0640h	58	97	(humidity not checked, WR not checked)			
	RC	0730h	49	92				
July 18	MC	0615	67	(120-17 Jun)	1400h 65	96	15%	
	RC	0655	56	(107-17 Jun)	1430h 64.5	99.5	9%	
	WR	0720	60	109	1420h 67	100	13.5%	
July 19	MC	0620	64	118	1305 64	92	18	
	RC	0704	51	108	1220h 64	91.5	19.5%	
	WR	0730	58	108	1230h 64.5	91	21%	
July 20	MC	0620	59	118	1310h 64	89	23%	
	RC	0710	52	107	1220h 65	84	36%	
	WR	0740	55	103	1240h 65	86	30%	
July 21	MC	0620	60	106	1140h 65	90	24%	
	RC	0700	54	99	1115h 65.5	90	25%	
	WR	0830	59	99	1100h 66	88	29%	
July 22	MC	0610	65	111	No humidity measures today			
	RC	0650	58	104				
	WR	0845	63	97				
July 23	MC	0615	65	110	67	90	28%	1330h
	RC	0740	59	108	68.5	92	28%	1345h
	WR	0845	60	104	69	94.5	27.5%	1400h





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Journal - Weather Data

Hastings Reservation, Monterey Co., Calif

Min/Max & Humidity measures

	GRID	Time	Temperature		Relative Humidity			Comments
			MIN	MAX	WET	DRY	%	
July 24	MC	0610h	64	108	<del>1215h</del> 67	87	34	
	RC	0650h	59	101	<del>1200h</del> 68	89.5	31.5	
	WR	0830h	60	103	<del>1145h</del> 68	86	38	
July 25	MC	0610h	63	110	<del>1205h</del> 68	90.5	29.5	
	RC	0700h	59	101	<del>1240h</del> 70	92.5	31	
	WR	0900h	62	100	<del>1300h</del> 70	96	25	
July 26	MC	0620h	67	113	<del>1310h</del> 67.5	95	23.5	
	RC	0740h	60	104	<del>1400h</del> 69	98	20	
	WR	0845	65	103	<del>1500h</del> 68	96	21	
July 27	MC	0610h	64	117	<del>1314</del> 67	88.5	31%	
	RC	0640h	<del>59</del> 59	107	<del>1254</del> 69	90	33%	
	WR	0800h	65	107	<del>1240h</del> 68	88	34%	
July 28	MC	0616h	65	111	<del>62</del> <del>62</del>	95	10	<del>41325h</del>
	RC	0645h	53	100	<del>1357h</del> 63	96	10.5	
	WR	0800h	59	104	<del>1412h</del> 62.5	97	28	Chlor slide released
July 29	MC	0620	64	120	<del>1230h</del> 63	94	13.5	
	RC	0650	50	103	65	96	14.5	
	WR	0800h	60	109	<del>1300h</del> 64.5	97.5	12	
July 30	MC	0615h	62	119	<del>1400h</del> 64.5	89	24	
	RC	0655h	50	107	<del>1425h</del> 64.5	89	28	
	WR	0800h	58	108	<del>1450h</del> 65	87.5	27.5	
July 31	MC	0615h	56	109	<del>64</del>	<del>88</del>		
	RC	0650h	52	98				
	WR	0805h	57	101				



Steinberg, Ek  
1958

JOURNAL - temp data

Hasting, Reservation, Monterey Co, Calif

Highs + Lows @ MC + RC August 1-4 :

MC

RC

August 1: high = 102  
low = 44

high = 95  
low = 51

August 2: high = 107  
low = 54

high = 100  
low = 52

August 3: high = 100  
low = 51

high = 92  
low = 48

August 4: high = 99  
low = 54

high = 84  
low = 51



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July 21  
(cont)

essentially ignored it. Ellie reset MC drift fence traps around 1900hrs.

2230hrs - out checking traps on RC. We are going to check the drift fences first and then the grid. It's clear, calm, low 60's, the moon is  $\sim 1/2$  full (waning) and setting in the west.

July 22

Finished by 0030h. The drift fence traps were in good shape for the most part - apparently most of the closed traps occur early at sunrise.

0600h - out checking traps on MC. It's clear, calm, upper 50's.

Started checking traps on RC by 0630h. A lot of woodrats! Finished by 0830h, went to WZ to check temperature, and returned to lab.

Summary of results on RC:	21 (PM)	22 (AM)	# ind
<u>P. californicus</u>	4	7	10
<u>P. boylii</u>	4	14	15
<u>N. fuscipes</u>	9 (1 new)	16 (2 new)	19
<u>Microtus</u>	1	1	2
<u>Perognathus</u>	0	1 (1 new)	1
<u>S. audubonii</u>	1 (new)	0	1
TOTAL	19 (1 new)	39 (3 new)	48 total

Very few traps were closed with no animals - putting out so many National traps seems to make a big difference. Also, most of the traps that are closed by birds on the drift fences apparently occurs in the am, as few traps were closed when we checked them last night.

Today we went to Anoyo Secco to swim - very nice! Reset MC drift fence traps around 1800h and all RC traps from 1820 to 1915h.

2240h - out checking traps on RC. It's clear, calm, low 60's. Moon is  $1/2$  full and in western skies. Finished by mid night and headed home.



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July 23 0600h - out checking traps on MC. It's partly cloudy, mid 50's. Started checking traps on RC by 0630h and finished by 0840h. Stopped at WR to check temperature on way back to lab to bleed new *P. californicus* from RC (#1382). Summary of results on RC:

	22 (PM)	22 (AM)	# ind
<i>P. californicus</i>	2 captures	9 capt (1 new)	10
<i>P. boylii</i>	8 " (3 new)	22 " (2 new)	27
<i>N. fuscipes</i>	8 "	17 " (1 new)	18
<i>Microtus</i>	1 "	3 "	3
<i>Perognathus</i>	0	2 "	2
TOTAL	14 " (3 new)	53 (3 new)	60

Ellie weighed the babies this am while I bled a new animal from RC. We finally got some rest later this am.

Ellie took humidity readings around 1330h and I released the new animal on RC in good shape at 1500h. Spent the rest of the ~~am~~ afternoon entering capture data, etc. Today was hot (again) (100°) and calm.

Reset MC drift fence traps around 1800h and all RC traps from 1830 to 1915h.

2230h - out checking traps on RC. It's clear, calm, moon  $\approx 5/8$  full and in ~~the~~ western skies. Not many animals captured tonight - maybe due to moon. Finished by 2330h & headed home.

July 24 0600h - out checking traps on MC. It's clear, calm, low 60's. Started checking traps on RC by 0630h and finished by 0815h. Stopped at WR to record temps & returned to lab. Summary of results on RC:

	23 (PM)	24 (AM)	# ind.
<i>P. californicus</i>	1	4	5
<i>P. boylii</i>	4	21 (2 new)	22
<i>N. fuscipes</i>	5	16	17
<i>Microtus</i>	1	1	2
<i>Perognathus</i>	1	1	2
<i>E. megalotis</i>	0	1 new	1
TOTAL	12	44 (2 new)	49 total





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July 24  
(cont)

Ellie & I weighed the babies and then we took it easy the rest of the am. Spent all afternoon working on data entry on the computer. Ellie took humidity measures around noon.

Reset MC drift fence traps at 1800h and all RC traps from 1930-1915h.

2240h - out checking traps on MC. It's clear, calm, upper 50s, moon is  $\frac{3}{4}$  full. Finished by 2345h and headed home.

July 25

0600h - out checking traps on MC drift fences. It's clear, calm, upper 50s. Jennifer joined us and we began RC at 0640h. Finished by 0840h, stopped at WR for temps, and returned to lab to weigh babies.

Summary of results on RC:

	24 (PM)	25 (AM)	# ind
<u>P. californicus</u>	2 captures	5 capt	6
<u>P. boylii</u>	6 "	19 " (1 new)	24
<u>N. fuscipes</u>	9 "	10 " (1 new)	20
<u>Microtus</u>	1 "	1 "	2
<u>Perognathus</u>	0	1 "	1
<u>S. auduboni</u>	1	0	1
TOTAL	19 "	44 " (2 new)	51 total

I went into town this am; Ellie took humidity readings around noon. Spent the rest of the afternoon on the computer.

Reset MC drift fence traps around 1800h, and all RC traps from 1930-1910h.

2240h - out checking traps on RC. It's clear, calm, moon is  $\frac{3}{4}$  full and directly overhead. Started checking traps on RC by 0640h. Picked up traps as we checked them. Finished by 0830h. Stopped at WR for temp's returned to lab. Summary of results:

	25 (PM)	26 (AM)	# ind
<u>P. californicus</u>	3	11 (1 new)	12
<u>P. boylii</u>	7	19	24
<u>N. fuscipes</u>	9	17	19
<u>Microtus</u>	1	1	2
<u>P. maniculatus</u>	1	0	1
TOTAL	21	48	58 total



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July 26  
(cont)

Ellie weighed the babies and I bled #1394 in the lab (which I will release this afternoon). Took it easy the rest of the am. We took humidity measures between 13-1400hrs and spent the rest of the afternoon working on habitat measurements on WR. Finished around 25 stations, only ~20 left! We set out traps on WR from 18-1900hrs, with 19 National traps spread across the grid. Reset RC & MC drift fence traps from 19-2000hrs. Quite the day ---- cli' bashed.

July 27 0600h - out checking traps on MC. It's clear, calm, low 60's. Checked RC drift fence traps then moved on to WR, about 0710h. Saw Felis concolor at station 8,6 (0800h) and again at station 4,6 (0830h)! See spp acct. Wow!!! Finished checking traps by 0900h and returned to lab with 3 new animals to bleed. Ellie weighed captive babies.

Summary of results on WR: P. californicus - 9 (3 new)

P. truei - 19 (7 new)

N. fuscipes - 9 (2 new)

P. boylii - 2 (1 new)

Perognathus - 4 (2 new)

TOTAL 42 captures (15 new)

We returned back to WR to finish up habitat measures. Finished by 1230h and then took humidity measures on all 3 grids.

I spent the rest of the afternoon entering data on the computer and helping Jennifer's Jane prepare S. beecheyi study skins. Ellie reset MC drift fence traps at 1730; both of us reset WR grid traps from 1800-1840h and RC drift fence traps from 1845 to 1900h. Another full day --



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July 28 0600h - out on MC checking traps. It's clear, calm, low 60's.  
Started checking traps on WR by 0700h and finished by 0830h -  
no Felis this am. Bled two new animals at the truck and  
released them around 0900h in good shape. I returned to the  
lab to spin blood and Ellie bled the captive animals.

Summary of results on WR: P. californicus: 7 captures (2 new)

P. truei : 21 " (2 new)

N. fuscipes : 10 " (5 new)

P. boylii : 1 "

Perognathus : 3 " (1 new)

42 " (10 new).

We spent the rest of the am working on the computer.

In the afternoon Ellie took humidity measures on all 3  
grids and counted Neotoma middens on grid WR. I  
worked on the telemetry paper all afternoon. Ellie reset  
MC drift fence traps ~~at~~ at 1730, and both of us  
reset all WR traps from 1815 to 1700h and RC drift fence  
traps from 1700-1715h.

Tonight there is a full moon which rises at 2130h.

July 29 0600h - out checking traps on MC drift fences. It's clear, low 60's.  
Checked RC drift fence traps and started grid WR around 0700. Finished  
by 0830 and returned to lab. Ellie weighed the babies and  
I worked on the computer all am.

Summary of results on WR: P. californicus: 4 captures

P. truei : 20 captures

N. fuscipes : 10 "

P. boylii : 2 "

Perognathus : 3 "

TOTAL: 39 captures (8 new)



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July 29  
(cont.)

In the afternoon Ellie took humidity measures and ~~measured~~ <sup>counted</sup> Neotoma middens on RC while I worked on my paper.

I reset MC drift fence traps around 1730; both of us reset WR grid traps from 1800-1930; and RC drift fence traps from 1940 to 1980 hrs.

July 30

0600h - out on MC drift fences checking traps. It's clear, calm, full moon on west. Started out checking traps on WR around 0715h. Finished by 0830. Returned to the lab & Ellie weighed the babies.

Summary of results WR: P. californicus - 6 captures

P. truei : 19 " (1 new)

N. fuscipes : 11 " (2 new)

P. boylii : 3 "

Perognathus : 4 "

Total : 43 " (3 new)

Ellie took humidity measures around noon - I spent the afternoon preparing specimens - 1 Spermophilus and 3 of the captive P. californicus (#1135, ~~#1295~~, & 1332). I decided to this now rather than have someone else take care of them in my absence (& Ellie) during August (See catalog & notes on specific animals for details)

Ellie reset MC drift fence traps around 1730h, then we both reset WR & RC traps from 1815-1915h

July 31

0600h - Out on MC checking traps. It's foggy and cool this am! First break in the weather we've seen in a while. Started checking traps on WR by 0700h. Picked up all traps as we checked them. Finished by 0830h and headed back to the lab. Weighed babies, ear-tagged them, and collected tissues from them - <sup>(also sacrificed ♂ #1243)</sup> I'll be taking them up to Berkeley with me today





Hastings Natural History Reservation, Monterey Co., Calif.

July 31  
(cont)

Summary of results on WZ: P. californicus: 5 captures

P. truei: 16 "

N. fuscipes: 12 "

P. boylii: 2 " (1 new)

Perognathus: 4 "

TOTAL: 39 " (1 new)

It took me until 1300h to take care of all the captive juveniles and prepare #1243. Got packed up and pulled out around 1500h. Ellie will remain at Hastings until 4 August, principally running drift fence traps.

I'll be in Berkeley for at least 2 weeks <sup>working on</sup> ~~beginning up~~ with electrophoresis & finishing up the telemetry paper. Thus, a breeding season's work has come to an end - rather successful I feel....



4 August, 1988

Dave Dribble - Here's the data, the notes  
and a Rocket Bubble Blaster... A couple  
of things to tell you. 1) See the RC drift  
fence data for 2 August -- it is true. I  
caught both a common <sup>king snake</sup> and a long nosed  
snake. The 2nd I thought was Calif.  
Mountain at first, but then I saw the  
picture of Longnose. Yikes! Neither had been  
eating mice (big ones anyway) because I  
actually got them out of the traps (brave me)  
and checked their bellies for bulges. Both were  
about a foot or so long and the king snake was  
 $\approx 3/4$ " thick and the Longnosed  $\approx 5/8$ " thick.  
Pretty meat, actually... Also, I saw something  
else pretty meat while I was at dinking after  
setting traps -- A Pygmy owl near station  
4, 15<sup>00</sup> (The steep station down in the ditch w/ a  
rope now). It was consuming a woodrat that  
was as big, if not bigger than itself. I went  
back to search for leftovers but couldn't find any.  
Let's see, what else? I found the cyclochrometer +  
it is in its case. I stuffed that P. californicus +  
it's in the case. Everything should be in order in the  
barn -- if not or if you have any questions, my #  
in Oakland is (415) 547-8085. And in case I'm not  
moved in yet, leave a message w/ Julie (my sis) in  
Palo Alto @ (415) 858-1486. →

Thanks for everything. I really did enjoy working  
with you this summer. I hope you keep in  
touch + definitely call me when you come  
to Berkeley. I'd like to keep up with how  
things are going and perhaps help out in the  
lab if possible. See you. (sorry  
this is so messy but I'm late as usual.)

-LE.

STEINBERG, G

1988

## JOURNAL

### Hastings Natural History Reservation, Monterey Co., California

- June 1 1400 h - Traps were set along dispersal transects east and west of Robertson Creek drift fences (see D.O. Ribble's notes for location). Drift fence traps were also set. In addition, six traps were set below the bridge in front of the bunk house in order to try and catch a pair of P. californicus for captive breeding studies. Finished by 1900 h.
- June 2 0615 h - scattered clouds, low 40s at Robertson Creek checking traps. It took me until 1030 h to finish and it was getting pretty warm by then so tomorrow I will start earlier and move quicker. I caught ♀ #1285 under the bridge and dusted her green. I also caught ♂ #1287. I will go out tonight to see if I catch him again with powder. Also worthy of comment is the fact that there is a Red Shouldered Hawk nest with a young bird in it above W-13 on the Robertson Creek dispersal transect. This afternoon I will set up a new cage in case I catch both P. californicus under the bridge.  
2330 h - Checked traps under bridge - 1 Neotoma, 2 P. boylii, & P. californicus.
- June 3 0545 h - low 40s, scattered clouds at Robertson Creek. Checked dispersal transects, drift fences & bridge traps. ♂ P. californicus #1287 caught under bridge. Finished by 0950 h. This afternoon I cleaned out the captive animal's cage and set up data sheets for woodrat house census on Madrone Canyon. My sister Julie arrived at 1600 h and I showed her around a little before I went to set traps. As I headed out at 1800 h Dave Laabs arrived for a quick visit on his way to Santa Cruz. He accompanied me as I set dispersal and drift fence traps on Robertson Creek. It is now 2315 h. Dave, Julie and I are spending the night on Dave Ribble's porch because there's not enough space in my room & Dave was too tired after dinner to drive to Santa Cruz. No P. californicus under the bridge tonight, but we did discover a bat in the living room of the cabin!
- June 4 0545 h - upper 40s; a few low clouds. I'm going to first check the traps on the drift fences at Madrone Canyon and then head over to Robertson Creek to check drift fences and the dispersal transects & I'll stop in the way to check the traps under the bridge. Then Julie, Dave and I are going to hopefully go for a hike. 1700 h - Julie and Dave both took off about an hour ago. I am heading out to set the traps along Robertson ("Poison Oak") Creek. 2300 h - Still no P. californicus under bridge, but half of the traps there were closed and empty, so perhaps this is the explanation.
- June 5 0550 h - upper 30s; scattered clouds. It feels very cold out here. I'm checking traps at RC, then will head to me and the bridge. I finished at 0945 h. Unfortunately, an immature P. boylii was found dead in a trap in Madrone Canyon. I will attempt to stuff it this afternoon, and hopefully get a start on the woodrat house census. This afternoon I was working on the woodrat house census in Madrone Canyon when it started to rain. I phoned Dave R. in El Centro and he told me to close the traps along the dispersal transect and to cover the pit fall cans and place boards over drift fence traps. I did this, and borrowed some boards from RC grid for the bridge traps. It was not raining at 2300 h when I checked the bridge traps. No P. californicus again.



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June 6 0545 h - upper 30s; cloudy, but not raining. [It didn't end up raining that much after all.] I checked drift fence traps and returned boards from under bridge back to RC. This morning I caught ♀ *P. californicus* #1195 again and redusted her bands. She looks pregnant so it would be really good to catch her mate soon. This afternoon it started to rain again so I collected the traps along Roberson Creek. I cleaned them out and set them to dry in Dave's cabin. I set drift fence traps + the traps under the bridge. (Of course, as soon as I came in ~~drained~~ from picking the traps up in the rain, the sky cleared...) 2300 h - 16 *P. californicus* under bridge -- perhaps should set more traps?

June 7 0600 h - mid 30s here at Robertson Creek. Am checking drift fences and then will check on captive animals before noon when Dave K. is due to return. This afternoon we'll be going to the Evolution meetings at Airlome, if all goes as planned. I CAUGHT A SKUNK! A small spotted skunk was caught on RC west drift fence (W-3--in) this am! His rear foot was caught in the trap. I managed to free him without causing too much of a stink...

June 17 2230 h - Dave Laabs and I are heading out to check the traps on Madrone Canyon grid. The sky is clear and starry and the temperature is somewhere mid 60s or so.

June 18 0600 h - At Robertson Creek to check drift fences. The sky is clear and the temp -- low 60s. Next I'll head out to MC to check drift fences and grid + ~~there~~ I will also pick up GRID traps there. Summary of Results on Madrone Canyon GRID:

	17 Jan	18 Jan	# Ind
<i>P. californicus</i> :	2 capt.	4 capt.	5
<i>P. boylii</i> :	9 " (1 new)	6 " (1 new)	13
<i>P. truei</i> :	1 "	5 "	5
<i>N. fuscipes</i> :	1 "	1 "	1
TOTALS:	13 (1 new)	16 (1 new)	24 ind

I finished checking traps and checking on the captive animals by 1045 h. Dave <sup>(and eating them)</sup> and I ate breakfast, took a nap and then headed to the coast to escape the intense heat. We returned at 1830 h so I could set the drift fence traps.

June 19 0630 h - upper 50s with scattered clouds at Robertson Creek this am. I'm checking drift fence traps here and then will go to Madrone Canyon where I'll meet Dave L. He set some of the MC GRID traps yesterday evening so that he can take a closer look at *P. truei* to help figure out distinctions between those animals and small *P. californicus*. We finished at 0930 h. I dusted a *P. californicus* (♀ #1186 caught at 10, 7 PURPLE -- it was in one of the traps that Dave L. set last night. Dave L. left at noon and took care of the captive animals. Then I set up transects ~~across~~ east of RC west drift fence 250 meters and also west of MC east drift ~~permanence~~ fence and east of MC west drift fence. These transects are being trapped in order to see if there are any *P. californicus* that we might be missing in the areas between the drift fences and the grids. Following <sup>are</sup> maps of where I placed the traps.





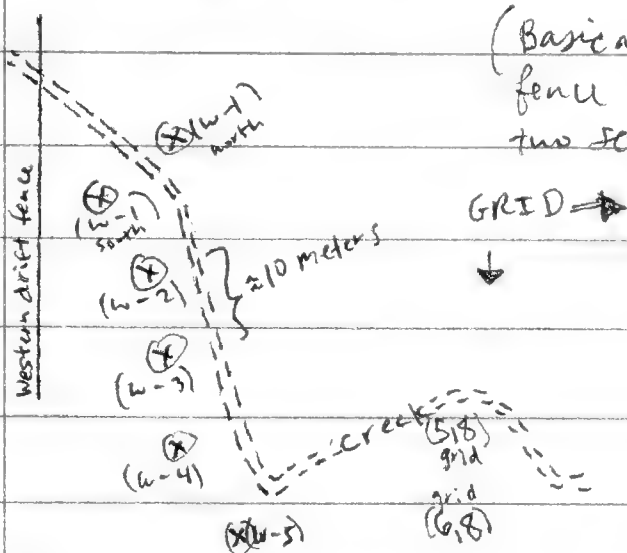
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## Hastings Reservation, Monterey Co, Calif

June 19 (1988)

MAPS OF TRANSECTS SET TO TRAP BETWEEN DRIFT FENCES + CKIDS:

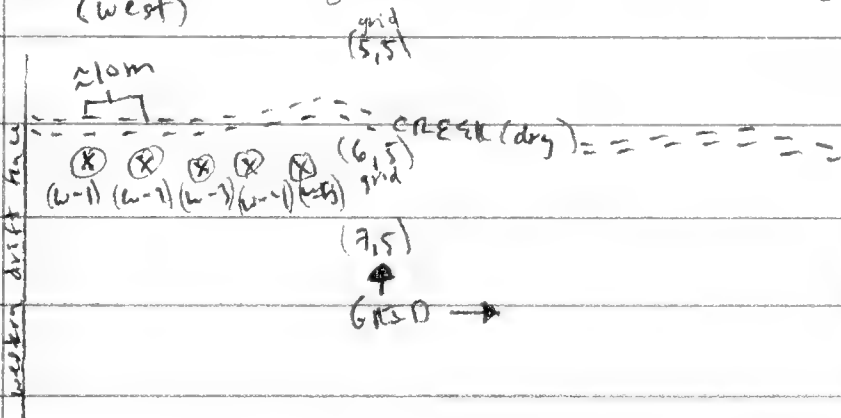
I. Robertson Creek - X: All stations were flagged and marked as follows.



(Basically I paced out 210 meters from the drift fence towards the grid along the creek, placing two sets of traps on either side of the creek at the first station because D.O.R. told me that a pair of *P. californicus* nests @ W-1 North (see map to left).)

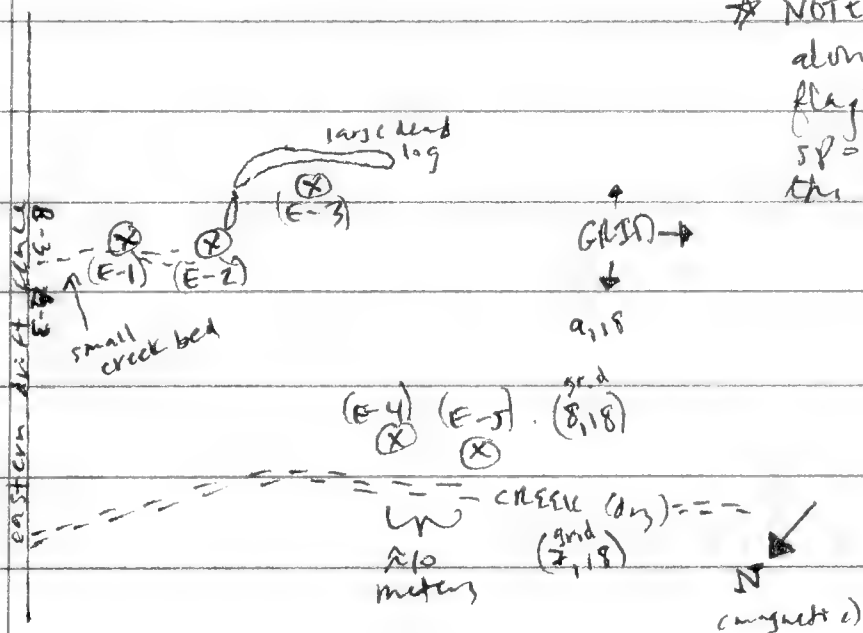
- 12 traps total

II. Madrone Canyon (west) - All stations flagged, as above.



- 10 traps total

III. Madrone Canyon (east)



- 10 traps total

\* NOTE: Instead of placing traps singly along the creek bed, I tried to flag areas that seemed to be likely spots for *P. californicus* (e) along the large dead log SE of the creek.

\* (X) = two traps set



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- June 20 0600h - It's in the mid 50's and foggy here on Robertson Creek this morning. I'm going to check drift fences + the transects I set up between the fence and grids both here and at Madrone Canyon. This afternoon I plan on working on the woodrat census in Madrone Canyon. 1000h - I moved the hygrometer to RC from WR but I was supposed to do it on Saturday...oops. I didn't remember until I was checking traps today. This afternoon turned out to be rainy, so I borrowed some old shingles from Suzanne and covered the grid traps I had set. I also took boards from row 8 of MC grid (10 of them) and used these. When I'm done with them (if it stops raining) I will bring them over to RC west drift fence where I think they'll receive more use.
- June 21 0600h - Low 50's w/ scattered clouds this morning. Checking same stuff as yesterday... drift fences + my three drift fence → grid transects. Finished by 0945h and checked on captive animals. This afternoon I must work on woodrat census. Hopefully I will get enough done to warrant a trip into town with Jane Rombouts to watch the Celtics beat the Pistons in the final game of the playoffs tonight...
- June 22 0615h - Warm and clear this morning -- ~ 60°F. Yesterday was a scorcher and today will probably be worse. I'm checking the drift fences + the three transects again this am. Early this afternoon I plan on going out with Jane R. to try and catch Bluebirds with her. [I forgot to mention yesterday that there was a Tiger Salamander in a pitfall trap on east MC drift fence! Beautiful!!!] I also will work on the woodrat house census, and hopefully finish it.
- June 23 0615h - Another warm am -- low 60's. Checking drift fences + the three transects. 1500h - I'm heading out to collect cage materials for the captive animals. To catch up things here, I should mention that I completed the woodrat census on MC yesterday afternoon. I picked up the traps I had set between the drift fences and grids this morning. When I return from clearing the cages and setting the drift fence traps I will clean and pack for my trip to Eugene, OR this weekend.
- June 24 0530h - Upper 50's. I'm at Robertson Creek checking drift fence traps. I'm going to meet Jane Rombouts at ~ 0615h to take her to Madrone Canyon to check traps there (she wants to meet the mice before she leaves). We'll also see if the little Junco nest is still full of chicks near MC at 10.5. 0900 - On my way to Eugene.
- June 29 D.O. Ribble left me in my own again this afternoon. I'm heading out to set traps on RC GRID. I will check them EARLY tomorrow am.
- June 30 0520h - I'm checking MC drift fence first this am because it isn't as spooky before the sun comes up... It's ~ 50° or so and clear out. When I'm done here I'll head over to check RC GRID + drift fences. I'll pick up traps on the grid. Summary of results for RC grid trapping is on the next page...



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July 30  
(cont)

Summary of results on RC:

July 30 (am)

<u>P. californicus</u>	13
<u>P. boylii</u>	18 (1 new)
<u>N. fuscipes</u>	7
<u>Perognathus</u>	1
<u>Microtus</u>	2
TOTAL	41 (1 new) captures

This afternoon when I set the drift fence traps, I also ~~also~~ changed the paper in the hygothermograph on RC.

~~July 1~~  
July 1

0600h - 260° on MC. This morning I'm checking drift fences on MC + RC and leaving the folding traps closed and taking the nonfolding traps out of the entrance to the fence + leaving them open on top of the fence to air. I'm covering all pitfall traps. Then I'll give the captive animals lots of food + water + then I head + see José to catch a flight to Boulder for a long weekend.

July 5

I got back on the left side because I had to stop in Salinas to get car repair materials and food. I set drift fence traps and uncovered pitfall cans. I heard it was a cool, pleasant week here.

July 6

0630h - checking drift fence traps on MC -- upper 50's and clear. Walking back to the car I realized that I forgot to bring the max-min thermometers, so I drove over to the hut and got the ones for RC and WR. I'll bring the one to MC when I return to set up P. californicus spot check traps over there. I'll also need to move the hygothermograph over to MC from RC. This afternoon I set some of the traps on MC ~~again~~ to try and catch new and for electing P. californicus. I went thru the data from the last time we trapped there, and set traps at all stations they have been caught at. These included: (8,5), (8,6), (8,7), (9,17), (9,1), (9,6), (9,7), (9,10), (9,12), (9,17), (9,18), (10,7), (10,8), (10,9), (10,10), (10,11), (10,17). I also ~~also~~ set up the hygothermograph at (9,10) in MC. The captive animals and their pups (two each) did just fine in our absence. They are now fuzzy with little claws but their eyes are still closed (see other notes). I gave them some fresh carrots and greens.

July 7

0600h - It is close to 60°F here in MC and the sky is clear. I'm doing the spot checks + checking the drift fences. In addition to these tasks, starting today I will be recording max + min temperature and relative humidity (using a spin psychrometer) at MC, RC + WR. This afternoon I cleaned the cages of the captive animals. I also learned how to ~~to~~ prepare a study skin for a bird from Walter Koenig, as I had found a dead young Steller's Jay with its neck broken by a Steller's Jay. It was a real scorcher today.

July 8

0600h - I'm waiting for Jane Kidd to meet me as she wants to check traps. It is close to 60°F and clear in front of the backhouse. I'll be carrying out spot checks and checking on drift fence traps this am. My sister Julie will be visiting later this afternoon and will spend the night.



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- July 9 0600h - The sky is clear and the temp is high 50's and I am very tired because Julie and I went to dinner and a movie in Monterey the last night and didn't get back until LATE. I'm checking traps in MC, then will head to RC. Julie said she'll help me get some photos taken of the captive pups later today.
- July 10 0615h - Dave Laabs stopped by on his way to work somewhere off of HWY 5 and spent the night. He's helping me check drift fences before he takes off. It is upper 50's and clear on MC. This afternoon I'll start setting up MC GRID for another round of trapping. Dave Riddle should be back 2100h + help out. Oh yeah, I forgot to mention (put it out of my head??) + that I managed to miss a drift fence trap yesterday morning + found a dead *P. boylii* (#010) in trap w. 6.5 (in) when I went out to reset them yesterday evening. Due to a stomach/intestine inflection, I did not stuff it yesterday, but I will as soon as I get a chance.
- August 1 0615h - clear sky with temp.  $\approx 50^{\circ}\text{F}$ . checking drift fence traps this am. Then this afternoon I'll clean out the captive animal cages in the barn. Besides setting the drift fence traps this evening, I got to drink all day long!
- August 2 0615h - foggy to the point of being difficult to see! Temp  $\approx 50^{\circ}\text{F}$ . Drift fences + dinkery again today. Also I will set traps in the clappert on Haystack in attages to catch *Dipodomys*.
- August 3 0600h - foggy  $\approx 50^{\circ}\text{F}$ . checking drift fences and Haystack and then dinkery! + I caught no *Dipodomys* on Haystack. And unfortunately I DID catch a smooched *Peromyscus californicus* ♀ #1348 on RC east drift fence. She had gone in the trap and was beating back out when the trap closed. A bug was eating her nose off. I called D.D.R. @ MVB in Berkeley and he said to either make a skin or save the skeleton. I made a study skin in a record 1 1/2 hours including finding all of the necessary tools and tags. Dave Laabs came at 7:00 pm and helped me set drift fence traps.
- August 4 0630h - cloudy  $\approx 50^{\circ}\text{F}$ . checking drift fence traps for one last time. Left passageways open and cleaned cat. Dave did most of it... the pit all came out. That was gross. Pitfall cans were covered. Now I am gone from this beautiful place and undoubtedly miss it. even D.D.R. ...





Hastings Reservation, Monterey Co., Calif

Sept 13

I ended staying in Berkeley longer than anticipated, due in part to a trip to Ecuador & the Galapagos Islands. Fabulous break!  
I arrived back down at Hastings around 1500h. Shores are clear, mid 80's. Unfortunately, the cabin will be occupied tonight by Bill Curren & family, so I'll have to bunk in the Red house this evening (Curren was supposed to leave today - shithead!). At 1700h I began setting RL drift fences and all grid traps. The vegetation along Robertson Creek looks amazingly green considering the drought conditions, although the level of the creek is as low as I've ever seen it. Buggy a truckle in spots. Finished setting all traps by 1915h and headed home. Didn't get to RL drift fence traps. I won't be checking traps at night this week unless animals are breeding (doubtful). Weather conditions should be no problem.

It is dark by 2000h and there is no moon (it rises during the day).

Sept 14

0645h - out checking traps on Grid RL. It's clear and cool (low 50's?). Sun rises at 0650h, so it is barely light enough to see. A lot of animals this am! Should add traps to drift fences to keep success < 50%. Very few grid traps closed with no animal (~5-10), but should add a few Neotoma traps. Finished by 1030h and returned to Lab with a new P. californicus. Summary of results:

<u>P. californicus</u>	- 15 (1 new)
<u>P. boylii</u>	- 23 (2 new)
<u>M. chrysus</u>	- 1
<u>N. fuscipes</u>	- 7 (2 new)
<u>Perognathus</u>	- 4 (3 new)
<u>TOTAL - 50 (8 new)</u>	



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Sept 14  
(cont)

An additional 22 animals on the drift fences. Great results!  
Today I began collecting tail tissue for DNA fingerprinting from all new animals (plus I need to collect tails from all currently tagged animals). With # <sup>1414</sup>~~1214~~, I clipped ~3cm tail and immediately began collecting blood from the tip with hematocrit tubes. By gently squeezing & massaging the tail, I was able to collect about 1 1/2 tubes of blood (~125ul). This amount should be adequate for electrophoresis. I also collected saliva. I plan on getting additional loci from a bit of the tail sheath instead of clipping ears as last year. The cartilage was removed from the tail sheath before freezing the sheath w/ O<sub>2</sub>.

Around noon I released # 1414 at its capture location. Spent the rest of the afternoon moving back into the Cabin and washing clothes. Today was clear, upper 80's.

I set MC drift fence traps around 1615hrs and all RC traps from 1645 to 1700hrs. Saw a Lynx rufus in the oaks north of the east RC drift fence.

Sept 15

0640h - out checking traps on MC. It's foggy, 46°. Started checking traps on RC by 0720h. Caught 3 juvenile Didelphis this am (2 on east drift fence, one on grid) on RC which I returned to the lab to save. Also had 1 Neotoma mortality and 1 very torpid Neotoma. Returned to lab around 1800hrs to stuff the Neotoma.

Summary of results on RC:

<u>P. californicus</u>	: 13 captures
<u>P. boylii</u>	: 25 " (0 new)
<u>Microtus</u>	: 4 "
<u>N. fuscipes</u>	: 7 " (1 mortality)
<u>Perognathus</u>	: 2 " (1 new)
TOTAL	: 51 captures (1 new)



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Sept. 15  
(cont.)

I returned N. fuscipes #1393 to the lab and was barely able to revive it in the sun. Put it in a holding cage for further (hopefully) recovery.

This afternoon was clear, low 80's. Stuffed one of the Didelphis this afternoon. Reset MC drift fence traps around 1630h, and all EC traps from 1700 to 1830hrs. I added 8 folding Shermans to the east drift fence (total 24!) and 12 to the west drift fence (total 39 traps). I also put 6 large Tonalawake (Neotoma size) traps at 6 stations across the grid.

Sept 16.

0640h - out checking traps on MC drift fences. It's clear, 49°. Started checking traps on EC around 0720hrs. I collected 1.5-2cm of tail tip from all P. californicus captured this am. I put the first one under Metafane, but the other 10 I did without anesthetizing. This doesn't seem to shock the animals and they can escape without being "woozey" from Metafane. - much preferred method for me! I put the tail tips in cryovials and will strip the bone back in the lab. Had 1 Sorex mortality and killed another Didelphis.

Summary of results: P. californicus : 11 captures

P. boylii : 26 " (2 new)

Microtus : 4 "

Sorex townsendi : 1 mortality

N. fuscipes : 13 "

Perognathus : 3 "

TOTAL 58 (2 new)

An additional 30 animals were captured on the drift fences - additional traps made a difference. Returned to lab to strip bones from the tail tips. After lunch I prepared the Sorex mortality and 2 more Didelphis spec. Jane Kidd prepared another of the Didelphis specimens.

Today was clear, mid 80's, with a slight breeze. I reset MC drift fence



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Sept 16 around 1030 and all RC traps from 1700 to 1830h.

Sept 17 0640h - out checking traps on MC. It's clear, calm, 46°. Started checking traps on RC by 0720h. Caught a Neotoma (#1418) by the tail and it was barely alive, so I sacrificed it. Collected tail tips from 3 P. californicus. Returned to lab around 1030h to strip tail tips, and collect tissues from a new MC P. californicus, and prepare the Neotoma mortality. Summary of results on RC: P. californicus: 11 captures

P. boylii : 31 " (4 new)

Microtus : 4 "

T. megalepis : 1 " (1 new)

N. fuscipes : 12 " (1 mortality)

Perognathus : 3 "

TOTAL : 62 " (5 new)

An additional 36 animals on MC's RC drift fences - great results!  
Released the <sup>new</sup> P. californicus (#1420) around 1130hrs on MC in good shape. Spent the afternoon relaxing with Melanie. Today was warm (low 80's) and clear.  
Reset MC traps around 1030 and RC traps from 1700 + 1800hrs.

Sept 18. 0645h - out checking traps on MC. It's clear, 50°. Started checking traps on RC by 0730hrs. Picked up traps as I checked them. Clipped tail tips from 2 P. californicus. Also lost a torpid P. boylii (#040) for recovery.

Returned to lab to prep tail tips. Summary of results: P. californicus - 11 captures

P. boylii - 32 " (2 new)

Microtus - 4 "

N. fuscipes - 9 "

Perognathus - 4 "

TOTAL - 60 captures

An additional 36 animals on MC's RC drift fences. Spent the rest of the day editing Galapagos slides with Mel. Today was warm (upper 80's) and extremely hazy - could barely see Pison Oak Hill from the cabin.





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Sept 18  
(cont)

Apparently there was a big brush fire near Vacaville (~20mi WE of Bay Area) that really obscured Bay Area skies and presumably drifted this far. From 1630 to 1800 hrs I set out and baited traps on all grid MC stations. Madrone Canyon is extremely dry, so I don't expect many animals. From 1815 to 1900 hrs I reset all TC drift fence traps and I released P. boylii #040 (torpid this am) and N. fuscipes #1393 (torpid 15 Sept, only now was it healthy enough to release).

The moon is about  $\frac{1}{2}$  full tonight and sets around <sup>2200</sup> ~~2400~~ hrs

Sept 19

0645h - out checking traps on MC. It's clear, 58°. Collected tail tips from 6 P. californicus. Finished checking all MC traps by 0850h and proceeded to check TC. Finished by 1000h and returned to lab to process tail tips

Summary of results on MC: P. californicus - 5 captures

P. boylii - 20 " (2 new)

P. truei - 1 " (1 new)

Perognathus - 6 " (1 new)

N. fuscipes - 2 "

TOTAL - 34 captures (4 new).

In addition 41 (36 from TC) animals were captured on drift fences

I spent the rest of the day entering data <sup>on</sup> ~~from~~ the computer for GRID TC.

Today was breezy and cooler than previous days (high in mid 80's). From 1630 to 1730 hrs I reset all traps on GRID MC. Reset TC drift fence traps around 1800 hrs.

Sept 20.

0645 hrs - out checking traps on MC - it's overcast, 50°. Initial results on MC - something turned over > 50% of all traps and 2 traps (station 8, 5 and 8, 12) are missing. Some of the rolled traps had animals, thus it is a nocturnal animal. The traps on the top 3 rows (8, 9, 10) were hit the hardest. This isn't a fox because none of the traps had been urinated on. I suspect a raccoon for the following reasons:



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Sept 20  
(cont)

1) found scat of racoon (I think) at 9,9 2) racoon tracks near ~~the~~ east drift fence and 3) the animal doing this must have manual dexterity because several traps were flipped vertically, several rolled traps were under bushes, and one of the missing traps was set inside a trap box laid on its side. Bought all new to set a large trap and check traps in the evening. There were so few animals I finished by 0915h (I did catch 5 P. californicus which tend to come out early in the night). Rewired all RC drift fence animals, so I didn't finish until 1000h. Returned to lab to prepare tail tips. Summary of results on MC:

P. californicus - 5 capt  
P. boylii - 10"  
P. truei - 2"  
Perognathus - 2"  
TOTAL - 19 captures

I returned to Grid MC around 1030hrs and searched everywhere for the missing traps with no luck. Both missing traps are next to large (~1m dbh) live oaks and perhaps a Procyon could carry them up the tree.

Spent most of the afternoon preparing Spermophilus skeletons (collected by Sugars. during my absence). Today was clear, mid 80's. Reset MC traps from 01045 to 1000hrs. I set the large National trap near station 8,7 and 4 woodrat-sized Nationals along row 10. Reset RC drift fence traps around 1000hrs.

2130hrs - out checking traps on MC. It's clear, low 60's. Moon is ~ 1/2 full and overhead. All my predictions were wrong! Caught a Urocyon in the large National trap at 8,7. I checked all traps on rows 9, 10, 11, and most of 8. Very few animals, but few traps turned over! Found <sup>one</sup> the missing traps from 8,12 below station 00



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Sept 20  
(cont)

with a P. boylii in it - still alive (#0410). At <sup>2230</sup>~~2300~~h I headed home with the Urocyon to release tomorrow

Sept 21.

0645h - out checking traps on MC. It's clear and cool (45°). The Urocyon caught last night must be guilty because ~~not many~~ very few traps were closed with no animal. Not many captures, however. Started checking traps on RC by 0815h and finished by 0930h.

Summary of results on MC: <sup>(including last night)</sup> P. californicus - 5 captures

P. boylii - 15 captures

P. truei - 5 "

Perognathus - 4 "

TOTAL - 29 captures (Onew)

I drove into Carmel Valley Village this am for a few groceries, and released the Urocyon on the Cachagua (?) Rd. Spent the rest of the afternoon skinning Spermophilus collected by Suzanne Schettler.

I reset all MC traps from 1630 to 1730h. I reset the large live trap near station B, B, again. Reset RC drift fence traps around 1800h.

Sept 22

0645h - out checking traps on MC. It's clear, 46°. Another Urocyon was apparently on the grid last night - shit! (also, one of my skeleton specimens hanging ~ 2m above the ground in front of the cabin was gone this am). The Neotoma used as bait in the large trap was missing this am. Fortunately, it was mostly the bottom rows (rows 5-8) that were affected. Started checking RC traps by 0830. Returned to lab to prepare tail tips for RC. Summary of results on MC: P. californicus - 3 capt

P. boylii - 12 "

P. truei - 3

Perognathus - 2 "

N. fuscipes - 1 "

TOTAL 21 captures





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Sept 22  
(cont)

Dismal results - Spent the rest of the morning washing clothes and analyzing capture data - and afternoon.

Went out to MC at 1600hrs to search for the lost trap.

Found it ~ 20m south of the grid on the opposite slope (savannah habitat). There wasn't an animal inside, but it was full of Neotoma scat. Perhaps the fox had a Neotoma for dinner...

Reset all traps including the large live trap near E, F.

Reset all RC drift fence traps around 1800hrs.

2120h - out checking traps on MC. It's clear, mid 50's, moon ~ 3/4 full and overhead (very bright!). Caught another Urocyon in the large live trap.

Checked all traps tonight - not many animals but few traps turned.

Returned to cabin by 2210h with the Urocyon.

Sept 23

0645h - out checking traps on MC. It's clear, calm, 50°. Picked up traps as I checked them this am. A few traps (~4) were turned this morning, but this has been the best morning yet. Released the

Urocyon back at the cabin (don't want to drive to release it, return, and then go back the same way). Started checking RC

drift fence traps around 0700 and finished by 1000h. Saw-tagged a Didelphis and caught a new P. californicus (#1421). I opened up all drift fence passages and covered all pit cans this am.

Returned to lab to check new P. californicus.

Summary of results on MC:

	22 (AM)	23 (AM)	#ind
<u>P. californicus</u>	2	2	2
<u>P. boylii</u>	4	13	15
<u>P. truei</u>	2	4	5
<u>Perognathus</u>	2	3	4
TOTAL	10	22	28 ind.

Packed up this am and headed for Big Sur by noon. Released #1421 at RC drift fence on my way out.





Hastings Reservation, Monterey Co., Calif.

Oct 11

Arrived at Hastings today around 1330h. Shores are clean, upper 70's. I'll only be here for 6 days - plan on trapping GRIDS WR & RC. All the vegetation is still very dry. Deciduous trees still have leaves, except most of the poison oak has lost its leaves. From 15-1630h I set out traps and baited traps on GRID WR. Most of the poison oak in West Ravine has lost its leaves (at last!). Set traps on Robertson Creek (GRID RC) drift fences, <sup>(1700h)</sup> using only the permanent traps (eg. no additional traps added). Robertson Creek is ~~at~~ as low as I've ever seen it, but it is still flowing. The poison oak leaves are just turning red along the creek. Set MC drift fence traps around 1730h. Madrone Canyon is extremely dry - all the Buckeye leaves are dried out.

Saw my first *Tarantula* of the fall in front of the cabin this afternoon. Also, found a huge! (4cm diameter) *E. concolor* ~~scat~~ on the trail ~ 20m <sup>west</sup> ~~east~~ of the MC east drift fence. Appeared to be full of deer hair. It gets dark now around 1830h. The fog rolled in at sunset, but receded by 2100h. No sign of the moon early this evening.

Oct 12

0650h - out checking traps on MC. It's clear, 46°. It's still dark enough to use my headlamp. Checked RC drift fence traps next and proceeded to GRID WR around 0830h. Many (~30) traps were closed with no animal - most likely *Neotoma*. Caught several *Neotoma*, but all in Sherman traps, none in National traps. Finished checking traps by 1100h and collected tissues from 3 new animals from WR and one from MC at the truck. Released them in good shape and returned to the lab at noon to spin blood and <sup>put samples</sup> ~~in~~ <sup>in nitrogen</sup>.



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Oct 12  
(cont)

Also prepared a Didelphis mortality from RC drift fence.

Summary of results on WR: P. californicus - 9 captures (3 new)

P. truei - 14 " (0 new)

N. fuscipes 13 " (3 new)

Perognathus 4 " (2 new)

TOTAL 40 captures (8 new)

In the afternoon I collected 34 non-folding Shermans from GRID MC to use on GRID RC. From 1500-1600h I set out and baited traps on GRID RC (1/2 drift fences) - I did not set traps at 5 stations (8,10 → 8,14) since I'm low on traps.

Reset WR traps from 16-1700h, and MC drift fences around 1730.

(Phew! This is a lot of traps, but since I'm having to spend a lot of time in Berkeley on fingerprinting, I need to do some catch-up on trapping). Today was sunny and warm (upper 70's).

8200h - out checking traps on RC. It's DARK (no moon) and mid 50's. Good results tonight. Finished by 2220h and headed home.

Oct 13

0650h - out checking traps on MC. It's foggy and cool (low 40's). Started checking traps on RC by 0740h, finishing by 1000h. Finished checking traps on WR by 1030h. Not many traps on WR that were shut with no animal.

This am. Returned to lab to collect tissues from 2 new WR mice and

	12 (Pm)	13 (Am)	Hand
Prepare <u>Sorex</u> mortality. Summary of results on RC.			
<u>P. californicus</u>	10 capt	10	13
<u>P. boylii</u>	12 "	16	21
<u>N. fuscipes</u>	1 "	4	5
<u>Microtus</u>	5 "	2	5
<u>Perognathus</u>	0 "	4 (1 new)	4
<u>Sorex</u>	0	1 mort	1
TOTAL	28 capt	37 capt	49

WR Summary: <u>P. californicus</u> : 9 (2 new)
<u>N. fuscipes</u> : 13
<u>P. truei</u> : 12
<u>P. boylii</u> : 1
<u>Perognathus</u> - 0 (2 new)
TOTAL 43 (4 new)



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Oct 13  
(cont)

The morning fog developed into overcast skies today. High in low 70's. Skies ~~are~~ finally cleared around 1500h. I reset WR grid traps from 16-1700h. I released the new animals in good condition while resetting traps. I also added 2 more National traps. Reset RC traps from 17-1745h and MC drift fence traps around 1800h.

2100h - out checking traps on RC. It's dark (no moon), clear, low 60's. Finished by 2215h.

Oct 14.

0645h - out checking traps on MC. It's overcast and cool (low 50's). Started checking traps on RC by 0730hrs. The sun quickly burned off the cloud cover this am. Started checking traps on WR by 0930hrs. A National trap with a woodrat (#1401) was found at station 15,13. It had originally been set at 14,13 but probably a Urocyon dragged it away because a fresh Urocyon scat was found at 14,13 (contained only plant material). Finished checking traps by 1045h and returned to the truck to collect tissues from #1435. Released her back at her capture site before returning to the lab to spin blood down. Summary of results on RC:

	13 (PM)	14 (AM)	und
<u>P. californicus</u>	6	12	13
<u>P. boylii</u>	16	19	23
<u>N. fuscipes</u>	2	4	4
<u>Microtus</u>	0	1	1
<u>Perognathus</u>	2	1	3
TOTAL	26	37	44

Summary of WR: P. californicus 10 captures (1 new)  
P. truei 14 "  
N. fuscipes 12 "  
P. boylii 1 "  
Perognathus 9 " (2 new)  
 46 captures (2 new)

Spent the afternoon working on data analysis. Today was clear and warm (low 80's).



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Oct 14  
(cont)

Reset WR traps from 1530-1630h, RC traps from 1630-1730h, and MC drift fence traps around 1800h. Finally saw the moon - it's  $\frac{1}{4}$  full (waxing) and it set about ~30 min after the sun.

2130h - out checking traps on RC. It's clear, mid 50's, no moon. Finished by 2240h and headed home for some sleep!

Oct 15

0645h - out checking traps on MC. It's clear and cool (upper 40's). Finished checking traps on RC by 0920h and started checking traps on WR. Finished by 1040h on WR, bled a new animal (#1436) at the truck, released him in good condition by 1100h, and returned to the lab to spin blood down.

Summary of results on RC:	14 (pm)	15 (am)	# ind
<u>P. californicus</u>	5 captures	9 captures	9
<u>P. boylii</u>	19 "	19 "	25
<u>N. fuscipes</u>	0 "	6 "	6
<u>Microtus</u>	2 "	4 "	4
<u>Perognathus</u>	2 "	2 "	4
TOTAL	28 "	40 "	48 ind

Summary of WR: P. californicus - 9 captures

P. truei - 15 " (2 new)

N. fuscipes - 10 "

Perognathus - 10 " (1 new)

TOTAL 44 captures (3 new)

Before lunch I cleaned out the captive animals' cages. #1412 is very scrotal. Today was very warm - mid 80's - and clear.

Spent the afternoon working on data analyses

Reset WR traps from 1530-1630, RC traps from 1630-1730, and MC drift fence traps around 1830h. The moon  $\sim \frac{1}{4}$  full set tonight around 2030h.

2100h - out checking traps on RC. It's clear and warmer (low 60's)

Not as many animals tonight compared to previous nights, but I did catch 3 female P. californicus (see spreadsheet). Finished all traps by 2200h.





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Oct 16

0645h - out checking traps on MC. It's clear, low 60's. Started checking traps on RC by 0720h, and on WR by 0920h. Finished checking traps on WR by 1040h and spent the rest of the morning setting up traps on WR. Returned to cabin by noon.

Summary of Results on RC:

	15 (PM)	16 (AM)	# ind
<u>P. californicus</u>	7 captures	10 capt	12
<u>P. boylii</u>	17 "	21 "	24
<u>N. fuscipes</u>	1 "	5 "	6
<u>Microtus</u>	1 "	3 "	4
<u>Perognathus</u>	2 "	3 "	3
TOTAL	28 "	42 "	49

Summary of GRD WR: P. californicus - 6 captures  
P. truei - 15 " (3 new)  
N. fuscipes - 11 " (1 new)  
Perognathus - 10 " (1 new)  
TOTAL 42 captures (5 new)

Today was hotter than hell (100° at cabin) with little breeze. I spent the afternoon working on CAPTURE data analyses from WR. Reset RC grid traps from 1630 to 1715h, and added <sup>5</sup> ~~4~~ National traps to catch N. fuscipes. Next I set out 20 traps at the 1st & 2nd crossings on Big Creek in order to catch 2 female P. californicus for captive breeding purposes. Reset MC drift fence traps around 1800h and set stations 9,6 → 9,10 in order to catch & dust ♀ #1200.

2 week-out checking traps on RC. It's clear, upper 60's, moon (3/4) is just setting. Finished by 2200h and moved on to check Big Creek trapline. Results at 1st crossing (eastern)

#1375 ♀, Mat, imp, nulliparous. 34.5g. Previously ear-tagged! Returned it to lab.

" 2nd female

♀, Mat, frequent. Looks like an ear-tag rip out! But no tissues collected, so perhaps tagged during dispersed trapping

No animals caught on GRD MC traps. Finished checking all traps by 2240h.

Dispenser



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Oct 17 0645h - out checking traps on MC. It's clear mid 50's. ~~Stop~~ I opened up all drift fence traps, hung them on the fence (leaving passageways open), and covered all pit fall cans as I checked traps. Stopped and picked up all traps at the crossing - no ♀ P. californicus collected. Started checking traps on RC by ~0730hrs and picked up traps as I went. Finished by 1000h and returned to the cabin to pack up. Summary of results on RC:

	16 (PM)	17 (AM)	<del>18</del>
<u>P. californicus</u>	9 captures	9 captures	13
<u>P. boylii</u>	15 capt (1 new)	20 capt	25
<u>N. fuscipes</u>	5 " (1 new)	4 "	8
<u>Microtus</u>	3 "	3 "	4
<u>Perognathus</u>	1 "	3 "	3
<u>R. muscalaris</u>	0	2 (2 new)	2
TOTAL	3 <del>3</del> captures	41 (2 new)	55

Before leaving, I introduced ♀ 1375 into the left enclosure with ♂ #1412. I also put in a young (~10 days old) P. maniculatus that Fanny Arnold had found abandoned behind the Robinson place. It's eyes were barely open and it probably won't make it. Left Hastings for Berkeley by 1230h, under clear & hot (again) skies (upper 70's).

Oct 20. Arrived back at Hastings around 1800h with Janice Butler and daughter. It was just getting dark as we arrived, so I didn't set any traps. The mammal class is down this weekend with both Jim Patton and Bill Lidencher.

Oct 29. Spent the am drinking around with the mammal class. Skies were partly cloudy early, but clear and warm (70's) by noon. At 1400h I started ~~resetting~~ setting out and baiting traps on GRID MC and MC drift fence traps. Madrone Canyon is still extremely dry - most of the snowberry has lost all of its leaves.

4/9 #144<sup>1</sup>

Caught Robertson Creek near Robinson Rd

mm

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Oct 29 (cont.) Finished by 1600hrs and moved on to RC to set all drift fence traps. Students from the mammal class set 6 mole spear traps around <sup>and on</sup> the east drift fence (at my suggestion). I added 2 more at E-7. Spent the remaining hour of daylight with the mammal class tending bat nets on Robertson Creek - no captures by sunset.

2310h - out checking traps on GRID MC. It's cool (low 50's) and clear. The moon ( $\approx 5/8$  full, waning) is just rising. Finished by 2400h and returned to the cabin. Tonight time goes back to Pacific Standard Time

Oct 30. 0645h - out checking traps on RC drift fences. Clear, calm, <sup>lower</sup> 50's. ~~Returned to the~~ No moles were captured in any of the spear traps.

Returned to the lab to pick up Ellie & Wendy Roberts, and we began checking MC traps around 0750h. Desmod results - finished by 0830h. There were so few animals.

Summary of Results on MC:

	29 (PM)	30 (AM)	# and
<u>P. californicus</u>	3	1	4
<u>P. boylii</u>	7	2	9
<u>P. truei</u>	3	1	3
<u>Perognathus</u>	4 (1 new)	0	4
<u>N. fuscipes</u>	1	0	1
TOTAL	18 (1 new)	4	20

Francis brought back a multiparous female P. californicus from Robertson Creek which I ear-tagged into put into one of the enclosures (#1441 - see exp acct).

Reset all MC traps from 1510 to 1600h, and RC grid fence traps from 1600-1630h. The mammal class left the mole spear traps, and left them set. It's too dark to work now by 1730h.

Since there are so few animals on MC, I'll only check traps in the am.

W

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Oct 31 0645h - out checking traps on MC. It's clear, 60°. Again, dismal results this am. To make matters worse there were two mortalities this am - a P. californicus (Cat #927, ear-tag #1184) and a Perognathus. In each case the animal appeared to have been caught by the trap door, and the exposed part of its body was eaten. In the P. californicus, only the skull was left so I at least knew which animal it was.

There were some traps rolled and opened up in the 2 upper corners of the grid - around 10,5 & 11,18 - 9,18. Overall not that many stations affected (~10), but should put the large carnivore traps in the corners. Checked RC drift fence traps

from 0750 to 0850h and returned to the lab to prepare #1184 (skull only). Summary of results on MC: P. californicus - 2 captures (1 mortality)

P. boylii - 4 "

Perognathus - 3 " (1 mortality)

TOTAL - 9 captures (2 mortalities)

Spent the rest of the morning working on boxes to enclose the infrared thermometers. Spent the afternoon working on data. Today was windy, partly cloudy, and warm (90°F). Reset RC drift fences from 10-1130h, and all MC traps from 1130-1725h. I moved the existing carnivore trap to station 10,5; and put another one at station 11,18. Finished just before it got dark.

Nov 1 0630h - out checking traps on MC. It's cool (upper <sup>40s</sup>) and foggy (wet fog moved in 0600h). Caught a Urocyon in the large carnivore trap at station 10,5. Better results this am with only 2 or so traps turned over. Loaded the Urocyon in the truck and then checked RC drift fences from 0745-0830h. Drove down Carmel Valley and released the Urocyon on the Cachagua Rd (same location as previous Urocyon).





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Nov 1  
(cont)

Summary of results on MC: P. californicus 4 captures  
P. boylii 4 "  
P. truei 0 "  
Perognathus 3 "  
N. fuscipes 1 "  
Total 12 captures.

The fog lifted quickly this am. Spent the rest of the morning cleaning cages. Spent the afternoon working on the computer. Today was cooler (mid 70's) and clear. At ~~1600h~~<sup>1530</sup> I set trap for P. Kelly at his woodrat houses # 85, 83, 81, and 79 (he called this afternoon and apparently forgot to record a Neotoma tag # this past weekend). Reset RC drift fences traps from 1545-1615h, adding 10 traps to the east fence (total = 28 traps). Reset MC traps from 1630 to 1715h. (set both large carnivore traps).

2100h - out checking traps on GRIO MC. It's cool (low 50's), clear, no moon yet. Several (15) traps were rolled mostly along the creek bed. I suspect it may be from S. gusius. Finished by 2200h and returned home.

Nov 2. 0620h - out checking traps on MC. It's overcast (high fog), low 50's)

Started checking woodrat traps by 0730h. Results follow:

House #	rt	left	
# 85	1336 (1630)	207g ♂, TD.	
83	1868 (1864)	175g ♀ imp, parous. (Escaped to house # 82)	
81	1712 (1713)	189g ♀ imp, parous.	(1713)
79	1772 (1773)	175g ♀ imp, parous (2).	

Finished checking traps on RC drift fences by 0845h

	1 (Pm)	2 (Am)	# und
Summary of Results on MC: <u>P. californicus</u>	3	3	4
<u>P. boylii</u>	6	4	8
<u>P. truei</u>	1	2 (1 new)	3
<u>Perognathus</u>	1	1	1
<u>N. fuscipes</u>	0	1 (1 new)	1
TOTAL	11	11 (2 new)	17



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Nov 2  
(cont)

Spent the rest of the am fixing the road up to the cabin & chopping wood.  
Spent the afternoon working on data - today was mostly clear and warm (low 80s).  
Reset RC drift fence traps and all MC traps from 1600-1730h.

2045

2100h-out checking traps on MC. It's clear and cool (low 50s), no moon.

Only a couple of traps closed with no animal, but very few captures.

Saw a Urocyon around station 8,18 from 7,17. It stayed back until I proceeded to go towards it, at which it ran away uphill.

Finished by 2130h.

Nov 3

0540h-out checking traps on MC. It's ~~clear~~<sup>overcast</sup>, low 50s, and still fairly dark. The Urocyon must have been near the west drift fence because Jesse barked and I found a fresh scat at W-9. Opened up all traps, left ~~pass~~ passageways open, and covered pit fall cans.  
Finished checking traps by 0700h and proceeded to check RC drift fence traps, finishing by 0800h.

Summary of results on MC:

	2(Pm)	3(4h)	#ind
<u>P. californicus</u>	2	3	4
<u>P. boylii</u>	4	3	5
<u>P. truei</u>	0	2	2
<u>Perognathus</u>	2	3(new)	3
<u>N. fuscipes</u>	0	1(new)	1
TOTAL	8	13(2new)	15

Packed up and left for Berkeley around 0900h.

Nov 15

Arrived back down at Hastings today around 1430h. Skies are partly cloudy, low 70s. The ground is very wet - apparently we got our first good rain of the season over the weekend (~6 inch). I set all traps on GRID RC and RC drift fences from 1515 to 1715hrs. I covered all folding Shermans and most of the exposed non-folding traps



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Nov 15 (cont) with rectangular boards - It's not supposed to rain until tomorrow, but I want to be prepared if rain comes early. Finished just as it was getting dark (not enough daylight left to set MC drift fence traps). The moon is overhead, close to  $\frac{1}{2}$  full (waxing).

2115h - out checking traps on RC. It's mostly clear, low 50's, moon is setting in the west. Finished by 2230h

Nov 16 0645h - out checking traps on RC. It's mostly overcast, calm, low 50's. Finished checking all traps by 0915h and returned to the lab. Summary of results on RC =

	15 (AM)	16 (AM)	# ind
<u>P. californicus</u>	5 captures	7 captures	10 <del>capt</del>
<u>P. boylii</u>	4 "	14 "	16
<u>N. fuscipes</u>	0 "	1 "	1
<u>S. townsendi</u>	1 (new)	0 "	1
<u>Microtus</u>	4 "	2 "	5
<u>Perognathus</u>	3 "	4 "	4
TOTAL	17 " (new)	28 "	37 ind

Spent the rest of the day working on analysis and misc. It stayed cloudy all day and rained lightly from noon until 1500h. Reset all RC grid traps from 1<sup>5</sup>30-1630hrs. I added 6 Neotoma traps in their boxes across the grid. Set all MC drift fence traps from 1630-1700hrs. It continued to sprinkle ~~part~~ after sunset and began to rain hard around 1930h.

2115h - out checking traps on RC. Skies have just cleared with some scattered clouds. The moon ( $\frac{1}{2}$  full) is in the west, Temp ~ 50°. Finished checking traps by 2220h under cloudy skies. Looks like more rain is possible.

scribbles

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Nov 17 0635h - out checking traps on MC. It's cloudy, mid 40s, looks like it could rain anytime now. Started checking traps on Grid RC by 0730h. Skies started to clear, but new clouds moved in from the west. Finished checking traps on RC by 1000h and returned to lab to prepare 2 Sorex mortalities.

Summary of results on RC -			# ind
	16 (PM)	17 (AM)	
<u>P. californicus</u>	4 capt	7 capt	10
<u>P. boylii</u>	12 "	16 " (1 new)	21
<u>N. fuscipes</u>	2 "	8 "	9
<u>S. townsendi</u>	0 "	1 (mort)	1
<u>P. maniculatus</u>	1 "	1 "	1
<u>Microtus</u>	3 " (1 new)	6 " (1 new)	7
<u>Perognathus</u>	3 "	4 "	4
TOTAL	25 (1 new)	43 " (2 new)	53

Good results last night and this am. It rained around 1100h, but the rest of the afternoon was partly cloudy, breezy and cold (low 50s). Reset Grid RC from 1500-1630hrs and MC drift fence traps from 1630-1700hrs. I added rolled up paper towels to all drift fence traps.

2120h - out checking traps on RC. It's mostly cloudy and cold (low 40s). The moon (3/4 full) is visible through the clouds. Finished checking traps by 2240h and headed home.

Nov 18 0635h - out checking traps on MC. It was clear earlier, but now is overcast and cold (<sup>38°C</sup> ~~low 40s~~). These clouds quickly turned off. Started checking traps on RC by 0715h and finished by 0915h.

Summary of results on RC -			# ind
	17 (PM)	18 (AM)	
<u>P. californicus</u>	2	9	10
<u>P. boylii</u>	1 (1 new)	11 (1 new)	21
<u>N. fuscipes</u>	5	7	11
<u>P. maniculatus</u>	0	1	1
<u>Microtus</u>	5	4	7
<u>Perognathus</u>	4	4	4
TOTAL	33 (1 new)	36 (1 new)	55 ind

R. megalotis 0 - 0 - 1





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Nov 18 Went into town this am for groceries & bait. Today was sunny, mid 70's. Welcome weather. From 1330 to 1515h I set out and baited all traps on GRID MC. I also set and baited the 2 large ~~live~~ live traps for Urocyon. Reset all RC traps from 1530-1630h.

2100h - out checking traps on RC. It's clear, calm, low 40's, moon is ~ 75% full and directly overhead (very bright!). Good results this PM. Headed home by 2230h.

Nov 19 0645h - out checking traps on MC. It's clear, low 40's. Not many animals trapped, but only 2-3 traps closed with no animals on MC. Finished MC by 0730h and proceeded to check traps on RC. Finished RC by 0930h and returned home to spend time with Mel who's down for the weekend. Summary of results on MC -

<u>P. californicus</u>	: 2 captures
<u>P. boylii</u>	: 6 "
<u>P. fuscus</u>	: 2 "
<u>Perognathus</u>	: 2 "
<hr/>	
TOTAL	: 12 captures

	18 (am)	19 (am)	# and
Summary of captures on RC - <u>P. californicus</u>	7	9	12
<u>P. boylii</u>	14	15	19
<u>N. fuscipes</u>	3	6	9
<u>P. maniculatus</u>	0	1	1
<u>Microtus</u>	7 (new)	5	10
<u>Perognathus</u>	3	3	3
TOTAL	34 (live) - 39	-	54

Today was sunny and warm again (mid 70's). Reset RC traps from 1415-1515h and MC traps from 1530 to 1630h. I won't be going out to check traps tonight.



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Nov 20 0640h - out checking traps on MC. It's clear, calm, cold (<sup>mid</sup> 30's). Light frost on the grass. Caught a Urocyon in the trap set at station 11, 18. Finished checking MC traps by 0745hrs, returned the Urocyon to the cabin, and proceeded to check traps on RC. Picked up or opened up all good traps as I checked traps. Finished by 1015h and returned to the cabin.

Summary of results on MC -

<u>P. californicus</u>	:	1	captures
<u>P. boylii</u>	:	7	"
<u>P. truei</u>	:	4	"
<u>Perognathus</u>	:	2	"
TOTAL	:	14	captures

Summary of results on RC -

<u>P. californicus</u>	:	13	captures
<u>P. boylii</u>	:	18	" (1 new)
<u>N. fuscipes</u>	:	11	"
<u>P. maniculatus</u>	:	1	"
<u>Microtus</u>	:	7	"
<u>Perognathus</u>	:	3	"
TOTAL	:	53	captures

I released the Urocyon on the Cachagua Rd before noon (~7 mi from Hastings by road). Today was another clear and warm day (mid 70's). Reset RC drift fence traps from 1500-1530h and all MC traps from 1530 to 1615h. Since there are so few animals on MC and none breeding, I won't check traps on MC during the night -

Nov 21 0645h - out checking traps on MC. It's clear, calm, mid - 30's. Finished by 0900 and proceeded to check RC drift fences. Spent the rest of the am splitting firewood and restocking my firewood pile.

Summary of MC results:

<u>P. californicus</u>	-	2	captures	<u>Perognathus</u>	-	1
<u>P. boylii</u>	-	6	"	TOTAL	-	13 captures
<u>P. truei</u>	-	4	"			

60

6

60

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Nov 21  
(cont)

Spent the afternoon working on the computer. Thin high clouds moved in this afternoon. Not particularly threatening, but a front is supposedly on its way. Reset RC drift fence traps from 1515 to 1545 and MC traps from 1600-1650h.

Nov 22 0645h - out checking traps on MC. It's overcast, <sup>low 50's</sup> ~~upper 40's~~ (much warmer than previously). 16 traps were turned over on MC this am (10% of traps). The pattern was somewhat random and there was no sign of urine, so I think ~~the~~ S. griseus was the culprit. Started checking traps on RC drift fences by 0750h. Returned by 0900h. Spent the am washing clothes and cleaning out the captive animal enclosures. Summary of results on MC -

<u>P. californicus</u>	: 3 capt
<u>P. boylii</u>	: 4 "
<u>P. truei</u>	: 2 "
<u>Perognathus</u>	: 1
<u>TOTAL</u>	: 10 captures

It was partly cloudy this afternoon and mid-40's. <sup>weather</sup> supposedly a front is on its way. Spent the afternoon working on the computer. Reset RC drift fence traps from 1515 to 1545h and all MC traps from 1600-1640h.

21<sup>15</sup>00h - out checking traps on MC. It's ~~clear~~ <sup>partly</sup> ~~mostly~~ cloudy, moon is full and overhead, low 50's. The sky with the clouds and the full moon is simply incredible tonight. A flashlight is useless in openings it's so bright. Anyway, I'm only going to check traps where #020 (♀ lactating) and her mate would be (eg the SW corner of the grid). - Caught #020 and redusted her, but no sign of her mate. Returned by 2145h.



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Nov 23

0545h - out checking traps on MC. It's cloudy, low 50's, and dark! -  
It has rained <sup>lightly</sup> during the night. Picked up traps, etc as I  
checked traps this am. Caught another Urocyon in the  
large trap at 10.5 on GRID MC. Finished checking all MC  
traps by <sup>0730</sup> ~~0800~~ and proceeded to check RC drift fence traps.  
It was raining hard by the time I started checking RC  
traps - I got soaked. Returned to the cabin to pack up by 0900h.  
Summary of results on MC (both AM & PM) - P. californicus - 3 captures

P. boylii - 7 captures (5 ind)

P. truei - 4 " (3 ind)

Perognathus - 1 "

TOTAL 15 captures (12 ind)

Left for Beyerhelly around 1030h - I released the Urocyon on the  
Laureles Grade RD on my way back.

Dec 4

Arrived back down at Hastings around 1400h under clear skies,  
low 70's. Vegetation looks dramatically different since I  
was last here - Salix, cottonwoods, sycamores, blue oaks,  
and the locust by the cabin are all in fall colors and  
loosing their leaves. The hills are beginning to take on  
green tints, and closer inspection reveals new growth  
of grasses and forbs. Finally, Thomomys seem to be especially  
active.

I set out and baited traps on Grid WR this afternoon  
from 15-1700h. There are "beckeyes" (newly dropped) all over the  
grid, but virtually no Laurel nuts. I also set out 8  
National traps in shelter across the grid. It was almost dark  
by the time I finished WR, so I didn't <sup>have</sup> ~~get~~ time to set drift fence  
traps. There was no moon visible early in the evening before I started





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Dec 5

OTBCH - out checking traps on WR. It's clear, upper 40's - No moon (<1/8 full is overhead). Good results this am - some traps closed by Neotoma (<10%) - Finished checking all traps by 0910h.

Summary of results on WR - P. californicus: 5 captures

P. truei : 14 " (1 new)

N. fuscipes : 9 " (1 new)

P. boylii : 1 "

Perognathus: 6 "

TOTAL 35 captures (2 new)

Went into town this am to get bait. Since the cost of rolled oats has recently doubled (.80¢/lb, supposedly due to the drought), I purchased unrefined rolled oats (stilled in husk) at a Feed store. These run at 19¢/lb. The only difference is that each oat grain is still in its husk. There should still be plenty for the mice to eat inside the traps.

In the afternoon (1330-1530h) I set both RC and MC drift fence traps. Additionally I put out min/max thermometers in their wooden box shelters at the locations previously used for weather monitoring. Each shelter is 0.5m above ground level and placed facing north (maximum shade) on MC & RC. On grid WR, the shelter faces southwest but should still remain in the shade. I also set up and began running the hygrothermograph on Grid WR below the max/min thermometer. I'm doing this to compare against the min/max and get some humidity readings.

While ~~checking~~ setting traps on RC drift fences I noticed traps closed at 2, 17. I must have overlooked these and 2 P. boylii (# 04241 & 03403?) were dead in the traps - shit!



PIBBLE, D.O.  
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Dec 5  
(cont)  
Dec 6

Reset all WR traps from 1530 to 1645h.

0645h - out checking traps on MC. It's clear, calm, mid 40's. Started checking traps on RC by 0730h. On the west drift fence had animals in 15/25 traps (success = 60%), so I should add more traps. The east fence is adequate (success = 37%). Started checking traps on WR by 0830h. Again, generally good results. 23 traps (18%) were closed with no animal. Most if not all of these looked like Neotoma was responsible. Finished checking traps by 1000h.

Summary of results on WR:

<u>P. californicus</u>	:	7	captures
<u>P. truei</u>	:	12	" (1 new)
<u>N. fuscipes</u>	:	11	"
<u>P. boylii</u>	:	2	"
<u>P. maniculatus</u>	:	1	" (1 new)
<u>Perognathus</u>	:	6	"

TOTAL: 39 captures (2 new)

I spent this afternoon counting beeches and Laurel nuts on Gold WR to look at variation in production across grids and maybe between years. (see next page) Reset WR traps from 15-1600h, adding 4 more National traps. The max/min thermometer on WR doesn't seem to be recording accurately - the min & max were both considerably different than the hygrograph. There might have been a bubble in the thermometer, so I vigorously shook it out. Also, the location might be in direct sunlight - check it out!

Reset RC & MC drift fence traps from 16-1700h. Added 13 folding Shermans to the RC west fence, bringing total traps on that fence to 38.



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Dec 6 The following is a count of number of resources (acorns, nuts, buckeyes, etc) counted in 2 minutes at the following trees on GRID WR.

Tree #	Species	Location	Count	dbh (cm)	Comments
1	<del>Blue</del> Valley Oak	16, 14	0	112	1/2 of leaves fallen
2	Live Oak	15, 14	0	144, 69	includes 2 main trunks.
3	Lamuel	15, 13	0	33	
4	Buckeye	14, 11	52	24, 23, 72 48, 41	all of it
5	Lamuel	13, 11	10	89	stay under canopy of tree!
6	Buckeye	13, 10 (east of)	7	52, 54, 58	
7	Lamuel	12, 11	29	82, 42	stay under canopy
8	Live Oak	11, 11	0	125	
9	Lamuel	11, 10	2	63, 63	
10	Buckeye	11, 9	76	73, 74, 23, 18	includes (adjacent to the NE)
11	Buckeye	6, 6	184	54	everywhere!
12	Lamuel	6, 5	27	60, 66, 56, 64	includes 4 main trunks
13	Buckeye	3, 3	210 +	20, 18, 59, 50, 47, 18, 68, 71	at least 1/2 still on tree.
14	Lamuel	2, 1	18	87, 52	
15	Buckeye	8, 5	45	26, 12, 13, 36, 12, 20, 26, 17 37, 14, 16	Counted all the way down hill
16	Valley Oak	9, 6	0		

I need to get dbh measures on all of these, but the average counts are as follows

Lamuel (n=6)  $\bar{x} = 14.33$   $1SD = 12.372$   $1SE = 5.058525$   
 $CV = 86.33644$

Buckeye (n=6)  $\bar{x} = 95.667$   $1SD = 81.972353$   $1SE = 33.465073$   
 $CV = 85.68509$

I have noticed no acorns from any of the oak trees across the grid.

- Fix thermometer on WR
- Patch EC drift fence
- Clean up porch

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Dec 7.

0650h - out checking traps on MC. It's clear, calm, low 40's. Started checking RC drift fence traps by 0730h. Capture success less than 50% on west fence this am. Started checking traps on WR by 0830h.

Fewer traps (16) closed by N. fuscipes this am on the grid.

Finished checking all traps by 1015h and returned to lab to prepare 2 mortalities. Summary of results on WR - P. californicus - 5 captures

P. truei : 18 " (3 new)

N. fuscipes : 13 " (1 new)

Perognathus : 7 " (1 new)

TOTAL : 43 capt (4 new)

Today was breezy and cooler than previous few days (see temp data). I reset GRID WR traps from 1430 to 1600h - I measured dbt's on all resource trees as I reset traps. Reset all drift fence traps from 16-1700h.

Dec 8

0650h - out checking traps on MC. It's clear, calm, low 40's. Started checking RC drift fence traps by 0730h. Caught 19 animals on the west fence which is 50% of the traps, but 6 traps were closed with no animal - probably by Neotoma. Started checking traps on WR by 0830h. 17 traps closed w/no mouse this am, several were turned over. Finished by 1015h and then moved the max/min thermometer to the NE side of the tree at its location to get it out of the sun. Returned to lab to prepare 2 Perognathus mortalities. Summary of results on WR:

P. californicus 5 captures

P. truei - 19 (2 new)

N. fuscipes - 9

P. boylii - 2 (1 new)

Perognathus - 5 (2 mortalities)

40 capt (2 new)





Hastings Reservation, Monterey Co., Calif

Dec 8  
(cont)

This afternoon was calm but cool (low 60's). I reset grid W12 from 15-1600h. The max/min thermometer appears to be recording correctly in the shade now. Reset drift fence traps from 16-1700h. Added 2 National traps in wooden shelters at station W-16 on RC (both sides). Tonight is a new moon.

Dec 9

0650h - out checking traps on MC. It's clear, calm, low 40's. Started checking RC traps by 0730h. 19/40 % trap success on west drift fence, and 11/19 on east fence - should add traps to east fence. Started checking traps on WR by 0830h. A lot of animals this am! Only 12 traps closed with no animal. Finished checking traps by 1030h and succeeded to pick up all traps, the hygrograph, and bled a new P.c. that I previously identified as P. tucii. Returned to the lab around 1230h to spin blood down.

Summary of results on WR - P. californicus - 5 captures (1 new)

P. tucii - 23 captures (1 new)

N. fuscipes - 16 captures

P. boylii - 1

Perognathus - 7 captures (1 new)

TOTAL - 52 captures (3 new)

At 1415h this afternoon I was driving down the lane when I spotted a Northern Pygmy Owl killing a Brown Towhee on the edge of the lane, ~ 30m inside the gate. I watched it for 5 minutes until it flew off with the towhee, barely able to get off the ground! (The towhee must have been equal in weight).

Set all traps on RC from 1430 to 1615h. Added 9 traps to the east drift fence, total = 26. Reset MC traps drift fence traps by 1700h.



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Dec 9 (cont) 2100h - out checking traps on RC. It's clear, calm, mid 40's, and no moon.  
Good results this PM - finished by 2245h

Dec 10 0650h - out checking traps on MC. It's clear, calm, low 40's. Started checking traps on RC by 0730h. Finished by 1000h and returned to lab to prepare Microtus mortality.

	9(PM)	10(Am)	# ind
Summary of results on RC - <u>P. californicus</u>	7	6	10
<u>P. boylii</u>	16	16	24
<u>N. fuscipes</u>	5	4	8
<u>Microtus</u>	2	3 (1 mortality)	4
<u>Perognathus</u>	0	4 (1 new)	4
TOTAL	30	33	50

Cristian Durazo and his son Daniel arrived after lunch today - they are here for the weekend. Took them up on the Arnold before we began setting traps. We reset RC traps from <sup>1530 - 1630h</sup> ~~1540~~ and MC drift fence traps around 1700h. Although I tried to give them "the best" instructions, I'm sure some traps aren't set well for the evening...

2100h - out checking traps on RC. It's clear, calm, no moon, low 40's - We finished by 2300h and returned home.

Dec 11 0700h - out checking traps on MC. It's clear, calm, low 40's. Started checking traps on RC by 0740h and finished by 0940h. Returned to lab to prepare 2 mortalities from this an.

	10(PM)	11(Am)	# ind
Summary of results on RC: <u>P. californicus</u>	7	5	9
<u>P. boylii</u>	15 (1 new)	20	25
<u>N. fuscipes</u>	6	6	9
<u>Microtus</u>	3	1	4
<u>Perognathus</u>	2	1	2
<u>S. townsendi</u>	1	0	1
TOTAL	34 (1 new)	43	50



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Dec 11  
(cont)

Cristian and Daniel left after lunch. I reset all RC traps from 1430 to 1545h, checked on the the lab animals, and reset MC drift fence traps around 1630h.

2105h - out checking traps on RC. It's clear, no moon, low 40's. Finished by 2230h.

Dec 12 0700h - out checking traps on MC. It's clear calm, mid 40's (noticeably warmer). Started checking traps on RC by 0730h. Great results - caught all but 2 P. californicus. Finished by 1000h.

Summary of results on RC - <u>P. californicus</u>	11(PM)	12(AM)	#ind
	7	12	13
<u>P. boylii</u>	17	20 (1 new)	27
<u>N. fuscipes</u>	7	4	9
<u>Microtus</u>	3	4	5
<u>Perognathus</u>	2	2	2
TOTAL	36	42 (1 new)	56

After lunch I returned to Grid RC and counted number of Laurel (Boytree) nuts and buckeyes (see Journal next page). Reset RC traps from 15-1600h, and MC drift fence traps around 1700h.

2100h - out checking traps on RC. It's clear, calm, no moon, low 40's. Not many P. californicus this PM. Finished by 2215h.

Dec 13 0700h - out checking traps on MC. It's clear, calm, low 40's.

Started checking traps on RC by 0730h and finished around 0930h.	12(PM)	13(AM)	#ind
Summary of results on RC: <u>P. californicus</u>	5	7	8
<u>P. boylii</u>	19	19	27
<u>N. fuscipes</u>	7	4	10
<u>Microtus</u>	2	2	3
<u>Perognathus</u>	3	4	4
TOTAL	36	36	42



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Hunting Reservation, Monterey Co., Calif

Dec 12

GRID DC Rosemead cont (see Journal Dec 6)

Tree#	Species	Location	Count	Circumference (cm)	Comments
1	Laurel	9, 17	2	31, 36 35, 47, 56	includes 3 trunks (ground covered w/ old live oak acorns)
2	Laurel	8, 16	4	97	main trunk heading south only
3	Laurel	7, 15	4	136, 80 104	looks under branches heading south
4	Laurel	7, 13	30	78, 52, 43, 40, 61	57 main branches under only.
5	Laurel	7, 12	<del>73</del> 4	73	
6	Buckeye	6, 13	215+	107, 85 80, 111	only counted on ground below tree
7	Laurel	4, 8	5	104	
8	Buckeye	3, 8	69	47, 64 45	
9	Buckeye	west of 3, 8	104	50	
10	Laurel	W-9 drift fence	0!	49, 48	

{ These are the only 3 Buckeyes on the Grid }





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Hastings Reservation, Monterey Co., Calif

Dec 13  
(cont)

From 1330 to 1515h I set all traps on Grid MC. Since I only have 60 folding Shermans ~~not being~~ available for use, I set only 1 trap per station on row 5 & 6. Tomorrow I can add more traps. The grasses & forbs are coming up nicely on Grid MC, but if we don't receive some rain soon this growth will be history....

Reset all RC traps from 1515-1630hrs.

2100h - out checking traps on RC. It's clear, calm, no moon, low 40's. The moon (1/4 full) set shortly before it came out. Finished by 2200h and proceeded to check traps on MC. Not many animals on MC. 2 traps on the top rows (10 & 11) had been rolled over (?). Finished checking traps by 2300h.

Dec 14 0650h - out checking traps on MC. It's clear, calm, low 40's. 3 traps were turned over and a 4th, although not turned over, had a fresh urine puddle on it. Urocyon strikes again. Finished MC by 0800h and proceeded to check Grid RC. Picked up or cleaned out all Grid traps as I checked traps. Finished RC by 1030h.

	13 PM	14 (AM)	# indi.
Summary of results on MC: <u>P. californicus</u>	1	3	3
<u>P. boylii</u>	7	4	8
<u>P. truei</u>	3 (new)	6 (2 new)	6
<u>Perognathus</u>	1	3	3
<u>N. fuscipes</u>	1	0	1
TOTAL	13 (new)	16 (2 new)	21

Summary of results on RC:	<u>P. californicus</u>	6	7	10
	<u>P. boylii</u>	20 (1 new)	16 (1 new)	27
	<u>N. fuscipes</u>	6	6	11
	<u>Microtus</u>	3	1	4
	<u>Perognathus</u>	3	3	4
	<u>TOTAL</u>	38 (1 new)	33 (1 new)	56



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Dec 14  
(cont)

Spent most of the day washing clothes and working on data. From 15-1600hrs I reset Grid MC traps. I also set a large Carnivore trap and set up the hygrograph next to the min-max thermometer. Reset RC drift fence traps around 1630h.

2130h - out checking traps on MC. It's clear, calm, low 40's, the moon is  $\sim 3/8$  full and just now setting - fairly bright. Disincl results - 4 P. truei & 1 Perognathus total. Finished by 2200h.

Dec 15 0700h - out checking traps on MC. ~~It's clear, low 40's~~ It's overcast (clouds moving in from the east!), breezy, low 30's - cool! No traps turned over, but very few animals captured. Finished by 0800h and proceeded to check RC drift fence traps. 22°C on Robertson Creek. Finished by 0900h and returned to lab to prepare P. boylii mortality and weigh babies.

	14 (pm)	15 (am)	# and
Summary of results on MC - <u>P. californicus</u>	0	2	2
<u>P. boylii</u>	0	12 (new)	12
<u>P. truei</u>	4	5	6
<u>Perognathus</u>	1	3	3
<u>N. fuscipes</u>	0	1	1
TOTAL	5	23	24

It remained partly cloudy through the morning. Went into town for a few supplies. Around 1300h clouds moved in from the west and it began snowing! It was around 40°, so none of the snow collected. I reset all Grid MC traps from 15-1600h, putting bands on all folding Shermans and paper towels non-folding Shermans where animals are captured.

Due to the weather and since I'm only catching residents along the drift fences, I left the RC drift fence traps closed, covered the pitfall cans, and picked up the extra folding Shermans. I did



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Dec 15  
(cont)

Leave 2 Spear-traps (for moles) set along the east fence.

Late this afternoon (11:00h) the snow turned to drizzle.

2130h - out checking traps on MC. It's overcast, raining off & on, low 40's. Again, animal results - 2 Pt., 1 Pb., and 3 Perognathus. Finished by 1000h.

Dec 16

0700h - out checking traps on MC. It's overcast, low 40's. It's not raining, but the ground and vegetation are all wet! Finished by 0900h, checked the mole traps (nothing), and returned to the lab to collect tissues from a new ♀ on MC drift fence.

Summary of results on MC:	15 (PM)	1 (AM)	# ind
<u>P. californicus</u>	0	2	2
<u>P. tuesi</u>	2	5	5
<u>Perognathus</u>	3	2	3
<u>P. maniculatus</u>	0	1 (new)	1
<u>P. boylii</u>	1	4	5
TOTAL	6	14	16

Released the new ♀ and with this am in good shape. Spent the rest of the am counting buckeyes, etc on GRID MC (see next page Journal). Shies cleared some <sup>and</sup> Chen's Ridge is covered with snow, plus some snow is visible on the Arnold.

Spent the afternoon working on data. Reset all grid MC traps from 1530-1630h. Checked traps. On WZ, then opened up passages on GRID EC drift fence traps and picked up all folding Sherman traps just as it was getting dark. Stayed partly cloudy all afternoon and cool (40's). Looks like more rain tonight.

2130h - mostly cloudy, low 40's. Moon is 1/2 full and bright when showing. Only 3 animals tonight (2 Pt., 1 Perognathus) - this is ridiculous. I set 2 additional stations tonight at 11.5 & 11.6 with folding Shermans. Trying to catch ♂♂ P. californicus. Finished by 2210h & headed home.

*n*

*nn*

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Hastings Reservation, Monterey Co., Calif

Dec 16 Resource Count on GRID MC (see Journal last 2 weeks for procedure)

(cont)

Tree #	Species	Loc	Circumference (cm)	Count	Comments
1	Buckeye	E-drift fence	57, 25, 42, 25, 54	(57)	
2	Buckeye	B, 17	14, 35, 13, 22	(1)	only 1 on tree
3	Buckeye	9, 16	23, 39, 47, 38, 27	(18)	counted mostly on downhill side
4	Laurel	11, 16-17	95, 56, 73, 42, 50	(2)	5 downhill trunks counted downhill side
5	Buckeye	above 9, 12	54	(2)	counted 2 shells
6	Buckeye	9, 9	41, 42, 15, 50	(1)	
7	Laurel	10, 8	60, 34, 61	(4)	
8	Laurel	east of 9, 7	47, 40, 35, 49	(13)	includes 4 trunks, counted downhill
9	Laurel	9, 16	64, 65, 79	(20)	2 east trunks 5' under only
10	Laurel	above 8, 5-6	48, 72	(6)	
11	Buckeye	7, 5	64, 47, 55, 38, 37, 27, 36	(59)	
12	Buckeye	6, 14	34, 39, 29, 28, 29, 17, 22, 29, 33, 21, 33, 15, 44, 71	(1)!	
13	Laurel	above trail to west drift fence	19, 29, 16, 22, 55, 29, 40	(66)	trunks which have been cut good production





Hastings Reservation, Monterey Co., Calif

Dec 17

0700h - out checking traps on MC. It's overcast, low 40's. Looks like it could rain any time. Finished by 0800h.

Summary of results on MC:	16 (PM)	17 (AM)	# used
<u>P. californicus</u>	0	2	2
<u>P. truei</u>	2	5	5
<u>Perognathus</u>	1	3	3
<u>P. boylii</u>	0	3	3
TOTAL	3	13	13

Dismal! Spent the rest of the morning cleaning out the capture mice enclosures and collecting tissues from the captive mice. It stayed overcast and cold all day.

Reset MC grid traps from 1530-1630h and checked the max/min thermometers before sunset.

Since so few animals have been captured early, I'm not going out tonight and I'll go out early tomorrow.

Dec 18

0600h - out checking traps on MC. It's cloudy, low 40's, and dark.

Picked up or opened up all traps as I checked. Finally caught some P. californicus this trapping session. Finished picking up and checking all traps by 0800h. Skies cleared upon sunrise - beautiful morning.

Summary of results on MC: P. californicus : 7 captures

P. truei : 5 "

Perognathus : 2 "

N. fuscipes : 1 "

P. boylii : 5 "

TOTAL : 20 captures.

Packed up and pulled out for Berkeley by 0930h.



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JOURNAL - WEATHER DATA

Hastings Reservation, Monterey Co, Calif

Th# 1  
GRID WR (min-max)

Th# 3  
GRID MC

Th# 2  
GRID RC

Dec 5	1630h: 43-75	<sup>Questionable</sup>	not recorded	not recorded.
Dec 6	1540h 44-85	<sup>* questionable</sup> See Journal	1700h 45-71	1630h 36-68
Dec 7	1530h 41-85	<sup>* question - 200</sup>	1700 41-62	1630h 34-64
Dec 8	1530h 38-57	<sup>Good!</sup>	<del>1700</del> 1630 40-58	1630h 30-58
Dec 9	1630 40-60		1650: 40-62	1615h 30-63
Dec 10	1530 40-60		1700 : 42-64	1600 32-64
Dec 11	1600h 42-60		1645 44-64	1520h 33-63
Dec 12	1630h 44-62		1700 45-67	1540h. 34-66
Dec 13	1700h 43-63		2230h 45-64	1605h 33-64
Dec 14	1650h 41-59		2150h 39-60	1630h 31-61
Dec 15	1700h 32-50		1520h 31-44	1630h 22-48
Dec 16	1640h 38-43		1600h 37-44	1700h 36-45
Dec 17	1650h 38-46		1600h 37-45	1700h. 36-46



Grid Data  
1988 (Pt.)

Hasting Reservation  
Monterey Co., Calif.



RIBBLE, D.O.  
1988

BURNAL - GRID DATA

Hastings Natural History Reservation, Monterey Co., Calif.

GRID RL: *Peromyscus californicus* ONLY

PERCIN-DAT

Species	No.	Wt	Sex	Age	Bdgy	Occ	Jan 7 (Pm)	Jan 8 (Am)	Jan 8 (Pm)	Jan 9 (Am)	Jan 10 (Am)	Jan 10 (Pm)	Jan 11 (Am)	Jan 12 (Am)	Comments
<i>P. californicus</i>	✓ 1142	28.0	♀	SAd.	Null Pers.	5, 16	5, 17		9, 18						7 - took to lab to bleed Red on ear, mouth?
↓	✓ 1139	29.5	♂	Early SAd.	TND	5, 17	5, 17				5, 18	5, 17		5, 17	Escaped up willow. Faint Red in ears
	✓ 1136	31.0	♀	SAd.	Null, Imperf.	5, 14			6, 11	6, 14	6, 10			5, 8	3 - Covered with Red powder.
	✓ 1137	30.0	♀	Early SAd.	Null Pers.	5, 11	5, 10	5, 11	6, 11	6, 11	6, 10	6, 11	6, 10	6, 9	
	✓ 1967	33.0	♂	M	TD	5, 8			5, 9						Rt ear inserted
	✓ 1968	40.0	♂	M	TD (scrotal)	6, 11		6, 11	6, 11	6, 11			6, 11	6, 10	Tail caught in door & swollen 1/2 way to tip
	✓ 1101	38.0	♀	Early M	Null, Imperf.		7, 16	7, 16			8, 18	8, 18	7, 16		
	✓ 1944	40.5	♂	M	TD		6, 14								Rebled @ Lab. Faint Red visible on ears.
	✓ 1079	56.0	♀	M	Preg		5, 14								Dusted Red
	✓ 1046	32.0	♀	SAd.	Null, Imperf.		4, 14	4, 13			4, 13		4, 13	4, 13	Red @ Lab. No powder visible
	✓ 1147	32.6	♂	SAd.	TND		4, 13	4, 14	4, 13		5, 13				Red @ Lab. No powder visible
	✓ 1123	38.0	♀	Early M	Pers., Null?		4, 8				4, 9				
	✓ 1955	36	♂	M	close to scrotal	8, 18				9, 17	9, 18			9, 18	2 - caught in Pm @ 1500 hrs
	✓ 1952	38	♂	M	scrotal					5, 17					About to loose tag, so tag #010
	✓ 1152	32	♂	SAd	TND				5, 11						Returned to lab for tissues
	✓ 1135	28.5	♀	SAd	ung mullip						8, 18			5, 11	Stock set in vial
	✓ 1914	41	♂	M	scrotal						5, 14				
	✓ 1153	19	♀	Imm	mullip							5, 14			covered with red powder kept in lab overnight to bleed
	✓ 1155	17.5	♂	Imm	TND								5, 14		covered w/ Red. Returned to tag for tissues





JOURNAL - GRID DATA

GRID RC: P. boylii ONLY

PBRC W.DAT

Comments.

tail cut off, 4mm left

lft. ear cut off

Escaped!

0110 - 0110

[illegible]

cont.

No	Wt	Sex	Age	Body
1010	22.0	♂	11	TD
				<u>29</u>

JOURNAL-GRID DATA

GRID 2C: *P. boylii* (2-cont).

Species	Ab	Wt	Sex	Age	Body	Date	Time	Comments
P. boylii	010	22	♂	M	TD	Jan 7 (am)	10	
↓	N 0440	15	♀	Imm	mullup	Jan 8 (pm)	7	
	N 01010	15	♂	Imm	TD	Jan 8 (am)	8	
	0320	29	♂	M	scrub	Jan 9 (am)	4	
	N 01120	15	♀	Imm	mullup	Jan 10 (am)	5	
	N 01030	17	♂	Imm	TD	Jan 10 (pm)	6	
	03430	27	♀	M	perf. paws	Jan 11 (am)	7	
	N 01030	14	♀	Imm	mullup	Jan 11 (pm)	8	
	02320	34	♀	M	pugnat	Jan 12 (am)	9	
	04100		♀	M	backing?		10	
	N 0421	16	♂	SAD	TD		11	
	N 04130	16	♂	SAD	TD		12	







JOURNAL-GRID DATA

GRID PC: Misc

[illegible]





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RL: *Peromyscus californicus* only

PERIOD-DAT

SPD	No	WT	Sex	Age	Brdg	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<i>Peromyscus</i>	✓ 1152	36.0	♂	W	td		6.11	5.10	5.10	5.10	5.12	6.11	5.11	5.9	5.11	6.10	covered with white powder. En. black to head
✓	✓ 1137	40.5	♀	W	unp		5.10	5.10	5.11	5.11		6.10	5.14	5.11	5.14	5.11	dusted orange
	✓ 1153	29.5	♀	sed	W		5.14		5.14		9.17	6.16	5.14				
	✓ 1139	33.5	♂	W	tud (close)		5.17										
	✓ 1944	41.0	♂	W	td		5.14				6.14	6.14		6.16		6.14	
	✓ 1142	39.0	♀	lots of bad	unp		6.14	5.14		6.14	5.15	6.14	6.14	6.14	6.14	6.14	
	✓ 1155	27.0	♂	lots of bad	tud				5.13	5.17	5.15		6.14			6.14	
	✓ 1955	38.0	♂	W	tud (box)				9.17		6.17						8-45g. Dusted RED
	✓ 1979	43.0	♀	W	pc					9.18				9.18			covered with 1g new powder. Took to lab for histology.
	✓ 1181	32.0	♂	early	tud							4.13			4.15		Dark tail tip. No sign of any powder? Got some from lab.
	✓ 1182	17	♂	W	TD								5.8				Trapped off of grid
	✓ 1183	32	♂	W	TD									6.10	6.10	6.10	
	✓ 1944	42	♂	W	scat										4.15	4.14	
	✓ 1146	39.5	♀	Early	unp												
	✓ 1917	42.5	♀	W	lactating											4.5	Trapped off grid. Dusted RED. Exposed to willow base

502  
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RIBBLE, D.D.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID PC: *P. boylii* ONLY

Spp.	No	wt	Sex	Age	Bldg	Occ	Feb 2 (PM)	Feb 3 (AM)	Feb 4 (AM)	Feb 4 (PM)	Feb 5 (AM)	Feb 5 (PM)	Feb 6 (AM)	Feb 6 (PM)	Feb 7 (AM)	Comments
<i>P. boylii</i>	0100	24.0	♀	W	post-lactating	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9-22g-
	02320	34.0	♀	W	preg	8.12	8.12	8.12					8.12	8.12		
	03430	28.0	♀	W	post-lact?	6.13						7.12			7.12	
	0340	23.0	♀	W	post-lact	7.11	7.11	6.11	7.11			7.9	7.11			6.11
	01300	22.0	♀	W	imp post	5.8	5.8		5.8		5.8			5.8		
	03200	25.0	♀	W	post	3.8	3.8	3.8					3.8	3.8		
	04110	27.0	♀	W	post	4.10	4.10	4.10	4.10			4.10				
	0230	23.0	♀	W	post	5.11	5.11	5.11	5.11		5.10	5.10	5.10	5.10	5.10	
	0240	21.0	♂	W	td	5.11	5.11	5.11	5.11			5.11	5.11			
	04020	27.0	♂	W	td	4.13			4.14			4.14				
	N 01440	21.0	♀	sad	W	4.14						5.13			4.14	
	0220	22.0	♀	sad	W	6.15	6.15	6.15	5.16	6.15		6.16		7.15		
	0410	23.0	♂	W	td	6.16	5.16	5.13	6.15	6.15	6.15	6.15	5.14	6.16	5.14	
	N 02000	21.0	♂	early W	td	5.16						5.17		5.17	5.17	
	02410	30.0	♀	W	post pr	5.16		7.16	6.16	7.16	5.16	7.16	6.16	7.16	7.16	
	02010	16.0	♀	imm	W	5.17	5.17	5.17	5.17	5.17	5.17	5.17	5.17	6.18	5.17	
	01120	19.0	♀	sad	W	8.18		7.18			8.18	8.18	7.18	8.18	7.18	
	010	23	♂	W	td		7.9	7.9			7.11	7.11	7.9	7.9	7.9	
	0440	23.0	♀	early W	imp	4.10	4.10	4.10						5.10		
	02020	26.0	♀	early W	post	4.14	4.14	4.14	4.14		4.14					
	0200	22.0	♀	W	preg-lactating	4.18								4.18		9-lactating
	N 02030	21.0	♂	W	td	7.16	6.18				6.18			8.18		
	0200	21.0	♀	sad	imp	8.15		8.15			8.14			8.15		
	N 02040	20.0	♂	sad	trud (dense)	4.15	4.15		4.15						5.13	



JOURNAL-GRID DATA

GRID <sup>2</sup> MC: P. bovis (p2)

[illegible]









LITBLE D.O.  
1988

BURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID PC: P. Californicus ONLY

SPD	Ab	wt	Sex	Age	Body	Dis.	2	3	4	5	6	7	8	9	10	Comments
P. Californicus	1137	43.0	♀	W	pe / rotating paran / py	46.0	7.9		6.10		6.11	6.11		7	10	4 - Dusted Orange. Radio-collared Ch #14 Returned to lab for tissues
✓ N	1201	34	♀	SAD	rot mudlip		8.13	8.13		8.12	8.12	8.12				
✓	1155	32.5	♂	SAD	TAD		7.12		7.13	8.12	8.13	7.13				
✓	1152	37.0	♂	W	snrotel	36.5	6.9	7.9		6.11						Radio-collared Ch #7 ADW 6 - no sign of powder.
✓	1182	36	♂	W	TAD		5.8				4.8					
✓	1187	38	♂	W	snrotel		5.8	4.8			5.8	5.8				3 - covered with 4 - powder green powder none
✓	1123	49	♀	W	pregnant rotel	59.0	4.8		4.8		4.8					4 - Dusted green
✓	1182	32	♂	SAD	TAD		4.10									
✓	1146	47.5	♀	W	rotel rotating, pregnant	43.0	4.13		4.13							Radio-collared Ch #5 Dusted Purple.
✓	1181	35	♂	W	TAD		4.13				4.15					
✓	1139	37	♂	W	snrotel		5.18		6.16		6.17	5.16				
✓	1979	44.0	♀	W	perf / paron		8.18	7.16	7.18		7.16	9.17				* - captured 19 March
✓	1142	28	♂	SAD	TAD		* 5.14									
✓	1955	41.5	♂	early winter	snrotel			6.17			9.18					
✓	1944	42.0	♂	W	snrotel			6.14								3 - covered with golden brown powder
✓ N	1217	16.0	♀	imm	mudlip			5.14		5.14		5.14				3 - covered with golden brown powder - 5 - powder
✓	1142	39.5	♀	W	post-rot fung / paron				6.14		6.15					4 - red-dusted with golden brown
✓ N	1220	56.0	♀	W	pregnant paron				5.18							4 - Returned to lab - Dusted Blue-green
✓	1188	30	♂	early W	TAD							6.17				

01h  
3440

LIBBE, D.D.  
1989

Journal - GRID Data

Humboldt Reservation, Monterey Co., Calif.

GRID PC: P. boylii only

Spp	Wg	wt	Sex	Age	Brdg	Dec 1	March 18 (Am)	March 24 (Am)	March 24 (Pm)	March 25 (Am)	March 26 (Am)	March 27 (Am)	9	10	Comments 1-#?
P. boylii	04340	25	♀	W	unp, parous post-lact	8.10									
	04410	25.0	♂	W	swatol	8.14					8.14	7.12			
	03430	27.0	♀	W	lactating	8.14					5.13	8.14			
	04410	23.5	♂	W	swatol	5.13					7.15	7.15			
	N 03100	18.0	♀	sed	unlapp	5.12					5.12	5.12			
	0100	24.0	♂	W	swatol	7.11					7.11	7.11			
	0100	27.0	♀	W	lactating	6.11									
	N 03100	23.0	♂	early whore	swatol	6.11					5.12	5.12			
	02120	24.0	♂	W	swatol	5.10					5.10	5.10			
	01300	25.5	♀	W	lactating/post	5.9					5.9				
	N 03120	25.0	♀	W	post-lact	3.8						3.8			
	0440	23.0	♀	W	post-lact	4.10					4.10	4.10			
	04110	26.5	♀	W	lactating	3.11					3.11				
	N 03130	27.5	♀	W	swatol	3.11									
	0210	25.0	♀	W	lactating/post-lact	7.15					8.15	8.15			
	N 03140	45.0	♂	1 year	7.15	7.15						6.15			
	0220	32.0	♀	W	(pregnant) 24.5	6.15					5.16	5.16			
	02030	24.0	♂	W	swatol	6.16					7.16	7.16			
	0400	26	♀	W	early mfg?	6.18									
	04200	27.5	♀	W	lactating	4.16					4.16	4.16			
	02010	24.0	♀	W	unp post-lact	5.14					5.17	6.18			
	0430	31.0	♂	W	swatol	8.15					8.15	8.15			
	01120	26	♀	W	lactating	8.17					7.18	7.18			



P. BIBLE, D.O.  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID # RL: P. boylii (P.2)

Sp	No	WT	Sex	Age	Body	Dec 1	March 18 (Am)	March 24 (Pm)	March 25 (Am)	March 26 (Am)	March 27 (Am)	
P. boylii	N 03300	28.5	♀	im	looking pregnant							
↓	03300	26.0	♀	im	looking pregnant			8.10			7.9	
	N 03310	18.0	♂	early looking	mudflat			6.11				
	N 03330	28.0	♀	im	pregnant			5.8				
	03340	28.5	♀	im	pregnant			5.10			5.10	
	03320	30	♀	im	pregnant						7.11	7.9
	N 03400	17.0	♂	imm	TND						8.14	6.14
	03320	27.0	♀	im	post-lab.			8.10				
	N 03410	19.0	♂	dead	Scrotal			8.12				
	N 03420	18.5	♀	imm	mudflat			8.14			8.14	
	02110	25.0	♂	im	Scrotal			5.8			3.11	
	02000	24	♂	im	Scrotal			5.14				
	03430	20	♂	early im	TND (close)			7.15			7.15	
	N 03440	10	♂	imm	TND				5.17		5.17	
	02100		♀	im	unf. pinous post-lab				3.11			
	N 04130	11	♀	imm	mudflat				4.10		4.15?	
	N 04140	21	♂	SAD	TND (close)				3.8			
	N 04220	14	♀	imm	mudflat						8.10	8.10
	N 04240	14	♂	im	TND						6.10	
	P 04300	21.5	♂	SAD	TND						4.10	
	0140	30	♀	M	pregnant						5.11	
	N 04300	21	♂	SAD	Scrotal						5.17	
	02040	25.5	♂	im	Scrotal						9.17	
											9.18	
											4.15	

0 - not seen on #

white patch on top of tail.



Journal-Grid Data

GRAD <sup>72</sup>REL: P. boffii (p 3) 5' Mosco

March 27 (Sun)

[illegible]





Journal - GRID Data

GRID 2C: Msc

[illegible]



PIBBLE, D.O.  
1988

Journal - GRID Data

Hastings Reservation, Monterey Co, Calif.

GRID PC: *P. californicus*

PCRC1Q.DAT

Sex	No	WT	Sex	Age	Bldg	Dec 1	2	3	4	5	6	covered with red powder Radio collared channel #18	DUSTED RED	DUSTED REI
<i>P. californicus</i>	0300	39	♂	M	scrotal	4,8			4,8					
✓	1917	41.5	♀	M	Postlac. Mu.	4,8		4,0				Radio collared channel #14	Testis very swollen but no milk	
	1146	48	♀	M	Preg. <del>lactating</del>	5,13						DUSTED PURPLE - radio collared ch. 12		
	1227	26.5	♂	SAD	TND	6,11		5,10			6,11			
	1152	39	♂	M	scrotal	7,9		6,10	6,11			Radio collared ch. 2		
	1201	37	♀	M	perf nullip.	7,13	7,13		7,13		7,12			
	1979	50	♀	M	preg.	8,13					7,16	Radio collared ch. #8 DUSTED RED	6-weights 47 grams	
N	1231	23	♀	imm	nullip.	8,18		9,10			9,17	Returned to Lab	5-Red powder collar & ear notch	
N	1232	22	♀	imm	nullip.	9,18					9,17	Returned to Lab	7-collared Red powder	
	1217	27	♀	SAD	IMP nullip.	5,16	7,14	9,17						
	1155	38	♂	SAD	late scrotal		7,12		7,13					
N	1233	34	♂	early M	TND		6,9	5,10	6,10	6,10		Returned to Lab		
N	1234	48	♀	M	imperf. <del>preg.</del> parous		5,8					Returned to Lab	white tail tip	
	1225	31	♀	SAD	nullip		4,8	4,0	4,8		5,0			
	1226	27	♂	SAD	TND		4,12	4,13		4,13				
N	1235	32	♂	SAD	TND		8,15		7,15	7,16	8,14	Returned to Lab		
	1944	43	♂	M	scrotal		6,15					Radio collared channel 4		
	1228	31	♂	SAD	TND		5,17							
??	1223	28	♀	SAD	up nullip		4,0					Red powder on ear		
??	1227	24	♂	SAD	TND		5,10							
	1222	27.5	♀	imm	nullip				4,13		4,13			
N	1236	32	♀	SAD	Nullip				6,17			white tail tip	Returned to Lab	
	1955	41	♂	M	scrotal				8,17			Toe clipped #200		
	1139	40	♂	M	scrotal				6,18					



ZIBBLE, D.O.  
1980

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: *P. californicus* (p. 2)

PARC10, PAT (cont.)

April 24 (AM)

April 23 (PM)

Spp	No	wt	Sex	Age	Body	Loc	2	3	4	5	6	7	8	
<i>P. californicus</i>	1142	40	♀	M	post-act post, primary					4.14				Radio-collared Ch # 7 Dusted Brown
	1191	37	♂	M	scrotal					5.13				5-bands of Salin 3m S of station. First Purple mounds in 1985. Radio-collared Ch # 11a
	1224	27	♀	sub	up, nullip					5.12				5-off grid at Salin along stream.
	1187	40.5	♂	M	scrotal					5.7	5.7			DUSTED ORANGE Radio collared Ch. 5
	1137	48	♀	M	post-act. primary						7.11			no sign of any powder (examined in dark)
	1237	19.5	♀	juv	nullip						5.92			





RIZZBLE, D.O.  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID EC: P. Californicus only

Species	Ab	WT	Sex	Age	Bdyg	May 3 (Sun)	May 3 (Tue)	May 4 (Sun)	May 4 (Mon)	May 5 (Tue)	May 5 (Wed)	May 10 (Sun)	May 16 (Tue)	May 7 (Sun)	Comments
P. Cal. formicivorus	1232	28	♀	Imm	perif nullip	9,18	9,18	9,17	9,17	9,17	9,17	7,16	7,18	9,17	2 - Red powder in ears, ear flaps
	1979	45	♀	M	lact	9,18	9,17	6,17	9,17	9,17	9,17	9,17	9,17	9,17	No Radio-collar! Dusted RED Ch #8
	1231	27.5	♀	Imm	post-perif?	9,17	9,17	9,18	9,18	9,17	9,17	9,17	9,17	9,17	4 - RED powder visible in ears.
	1944	42	♂	M	scrotal	5,16	5,16	6,13	4,14	4,14	4,14	4,14	4,14	5,14	Removed radio-collar Ch #4
	1217	30	♀	SAD	unperf nullip	5,15	5,16	5,17	5,14	5,14	5,14	5,14	5,14	5,15	4 - covered with GOLDEN BROWN
	1235	29.5	♂	M	TAD	7,15	7,15	7,15	7,15	7,15	7,15	7,15	7,15	7,15	scar on back
	1226	27	♂	SAD	TAD	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	
	1224	28	♀	SAD	unperf nullip	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	Ears: feet covered with RED powder. Blood in lab.
N	1257	15	♂	Imm	TAD	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	2 - Red visible in ears.
	1225	33	♀	SAD	perif nullip	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	
	1233	34	♂	M	TAD (elbow)	5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,10	
	1201	38.5	♀	M	unperf nullip	7,12	7,12	8,12	7,12	7,12	7,12	7,12	7,12	8,12	Removed radio-collar - changed Ch #10
	1181	38	♂	M	scrotal	5,12	5,12	4,13	5,13	5,13	5,13	5,13	5,13	5,12	8 - first purple in ears
	1227	30	♂	SAD	TAD	7,9	7,10	6,11	6,11	6,11	6,11	6,11	6,11	6,11	2 - faint orange in ears
	1222	29.5	♀	SAD	unperf nullip	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	6 - fresh orange on over body
	1146	43.5	♀	M	lactating	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	8 - covered w fresh purple powder.
	1155	38	♂	M	scrotal	7,13	7,13	7,13	7,13	7,13	7,13	7,13	7,13	7,13	Removed collar 5 - 44.5 grams
N	1261	15	♀	Imm	nullip	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	3,8	Dusted PURPLE 7 - REDUSTED PURPLE
	1955	39	♂	M	scrotal	7,16	7,16	7,16	7,16	7,16	7,16	7,16	7,16	7,16	2 - Red powder in ears.
0300	1142	40	♀	M	pregnant	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	Returned to lab.
	1237	26	♀	Imm	nullip up	4,9	4,9	4,9	4,9	4,9	4,9	4,9	4,9	4,9	Removed collar: covered w RED powder.
	1139	38	♂	M	scrotal	9,18	9,18	9,18	9,18	9,18	9,18	9,18	9,18	9,18	8 - 105 ear tag. TCO 300
	1152	39.5	♂	M	scrotal	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	7,9	NO collar: Dusted Golden Brown

1

2

3

4







RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID CC: *P. boylii*

Spp.	No	WT	Sex	Age	Body	May 3 (Am)	May 3 (Pm)	May 4 (Am)	May 4 (Pm)	May 5 (Am)	May 5 (Pm)	May 6 (Am)	May 6 (Pm)	May 7 (Am)	Comments
<i>P. boylii</i> ↓	N 0241	18.5	♀	SAD	imp, nullip	4, 16	4, 16	4, 16	4, 16						
	03440	28	♂	M	scrotal	5, 17	5, 17	5, 17	3, 11	3, 11					
	04200	32	♀	M	post-lact pregnant	5, 17	5, 17		4, 16						
	02000	26	♂	M	scrotal	5, 18	5, 18	5, 18	5, 18	5, 18				5, 18	
	N 0301	19	♂	SAD	TND	6, 18	6, 17	6, 17	6, 17	6, 17	6, 17	6, 17	6, 17	6, 17	
	N 0311	18.5	♀	SAD	imp, nullip	6, 18	6, 18	6, 18						6, 18	
	N 0321	19	♂	SAD	TND	7, 18	7, 18	7, 18						7, 17	
	0140	29	♀	M	pregnant lact?	9, 17	9, 17	9, 18						8, 17	
	0430	32.5	♂	M	scrotal	8, 14	8, 14	8, 14						8, 15	
	0210	26	♀	M	post-lact imp, parent	8, 14	8, 14	8, 14						8, 16	
	02030	25	♂	M	scrotal	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 17	
	01120	24	♀	M	post-lact imp, parent	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 16	7, 17	
	0410	24.5	♂	M	scrotal	6, 16	6, 16	6, 16	6, 16	6, 16	6, 16	6, 16	6, 16	6, 16	
	0220	28.5	♀	M	lact	6, 15	6, 15	6, 15	6, 15	6, 15	6, 15	6, 15	6, 15	6, 15	
	N 0331	19	♂	SAD	TND	5, 14	5, 14	5, 14	5, 13	5, 13	5, 13	5, 13	5, 13	5, 13	
	03140	20	♂	M	TND	4, 14	4, 14	4, 14							
	N 0341	13	♀	imm	nullip	3, 11	3, 11	3, 11							
	N 0401	23	♂	M	scrotal	5, 11	5, 11	5, 11							
	02100	31	♀	M	lact (preg?)	3, 8	3, 8	3, 8	3, 8	3, 8	3, 8	3, 8	3, 8	3, 8	
	01300	25	♀	M	lact	4, 9	4, 9	4, 9	4, 9	4, 9	4, 9	4, 9	4, 9	4, 9	
	04300	19.5	♀	late SAD	imp nullip	5, 8	5, 8	5, 8	5, 8	5, 8	5, 8	5, 8	5, 8	5, 8	
	0340	33	♀	M	pregnant	6, 11	6, 11	6, 11	6, 10	6, 10	6, 10	6, 10	6, 10	6, 10	
	010	25	♂	M	scrotal	7, 11	7, 11	7, 11	7, 9	7, 9	7, 9	7, 11	7, 11	7, 11	

~~Scrotal~~ Caught again in 8, 18

B=9, 17

Aug.



Journal - Grid Data

GRIOTC & P. boylii (p 2)

[illegible]



Journal-Grid Data

GRID RC: P. boylii pg. 3

Sp	Ab	wt	Sex	Age	Bdyg	Dec	1	2	3	4	5	6	7	8	9	10
P. boylii	N 01031	25	♂	M	TND					4,10						
✓	N 01041	13	♂	imm	TND					4,10						
	03110	24	♂	M	scrotal					0,12			0,12			
	03330	25.5	♀	M	post-lact. perf					5,11	5,11					
	N 01101	23.5	♂	M	scrotal					9,18						
	04110	29	♀	M	perf. early parous preg					4,11						
	N 01111	13.5	♀	imm	nullip.					8,10						
	N 01121	18	♀	imm	nullip.					8,10						
	0231	24	♀	M	post-lact. perf					9,18						
	03430	38	♀	M	pregnant					6,14						
	N 01141	15	♀	mm	nullip.					3,11						
	02440	27	♂	M	scrotal					4,16						
	01201	24	♀	SAD	imp. nullip.					9,18						
	03200	26	♀	M	imp. nullip.					3,9	3,9					
	N 01211	14	♂	imm	TND					9,18						
	N 01221	14	♂	imm	TND					9,18						
	0310		♂	M	scrotal					7,9						
Cat 10	02120	23.5	♂	M	scrotal					4,12						
104	03120	31	♀	M	imp. parous					3,9						





## Journal-Grid Data

GRID EC: N. fuscipes, Perognathus

[illegible]



Ribble, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: Misc.

Spp.	No	WT	Sex	Age	Budg	Dec 1	May 3 (Sun)	May 3 (Sun)	May 4 (Sun)	May 4 (Sun)	May 5 (Sun)	May 5 (Sun)	May 6 (Sun)	May 6 (Sun)	May 7 (Sun)	Comments
<i>Microtus</i>																
<i>Microtus</i>																
<i>Peromyscus</i>																
<i>Peromyscus</i>																
<i>Peromyscus</i>																
<i>Peromyscus</i>																
<i>Peromyscus</i>																

very light colored.

white tail tip

Correct?



JOURNAL-GRID DATA

GRID <sup>2</sup> ~~2~~ C: *P. californicus*

Spp	Ab	wt	Sex	Age	Body	Rec 1	May 26 (Pm)	May 27 (Am)	May 27 (Pm)	May 28 (Am)	May 28 (Pm)	May 29 (Am)	May 30 (Pm)	May 31 (Am)	May 31 (Pm)	June 1 (Am)	Comments
<i>P. californicus</i> N	1304	19.5	♂	Imm	TND	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	Returned to lab 7-RED in ears
	1146	42.0	♀	M	LAC <sup>a</sup> IMP.	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	5,13	3- NOT LAC 10-RED PURPLE 4-lactating 5- <del>yellow</del> 8- <del>red</del> 10- <del>red</del> 11- <del>red</del> 12- <del>red</del> 13- <del>red</del> 14- <del>red</del> 15- <del>red</del> 16- <del>red</del> 17- <del>red</del> 18- <del>red</del> 19- <del>red</del> 20- <del>red</del> 21- <del>red</del> 22- <del>red</del> 23- <del>red</del> 24- <del>red</del> 25- <del>red</del> 26- <del>red</del> 27- <del>red</del> 28- <del>red</del> 29- <del>red</del> 30- <del>red</del> 31- <del>red</del> 32- <del>red</del> 33- <del>red</del> 34- <del>red</del> 35- <del>red</del> 36- <del>red</del> 37- <del>red</del> 38- <del>red</del> 39- <del>red</del> 40- <del>red</del> 41- <del>red</del> 42- <del>red</del> 43- <del>red</del> 44- <del>red</del> 45- <del>red</del> 46- <del>red</del> 47- <del>red</del> 48- <del>red</del> 49- <del>red</del> 50- <del>red</del> 51- <del>red</del> 52- <del>red</del> 53- <del>red</del> 54- <del>red</del> 55- <del>red</del> 56- <del>red</del> 57- <del>red</del> 58- <del>red</del> 59- <del>red</del> 60- <del>red</del> 61- <del>red</del> 62- <del>red</del> 63- <del>red</del> 64- <del>red</del> 65- <del>red</del> 66- <del>red</del> 67- <del>red</del> 68- <del>red</del> 69- <del>red</del> 70- <del>red</del> 71- <del>red</del> 72- <del>red</del> 73- <del>red</del> 74- <del>red</del> 75- <del>red</del> 76- <del>red</del> 77- <del>red</del> 78- <del>red</del> 79- <del>red</del> 80- <del>red</del> 81- <del>red</del> 82- <del>red</del> 83- <del>red</del> 84- <del>red</del> 85- <del>red</del> 86- <del>red</del> 87- <del>red</del> 88- <del>red</del> 89- <del>red</del> 90- <del>red</del> 91- <del>red</del> 92- <del>red</del> 93- <del>red</del> 94- <del>red</del> 95- <del>red</del> 96- <del>red</del> 97- <del>red</del> 98- <del>red</del> 99- <del>red</del> 100- <del>red</del> 101- <del>red</del> 102- <del>red</del> 103- <del>red</del> 104- <del>red</del> 105- <del>red</del> 106- <del>red</del> 107- <del>red</del> 108- <del>red</del> 109- <del>red</del> 110- <del>red</del> 111- <del>red</del> 112- <del>red</del> 113- <del>red</del> 114- <del>red</del> 115- <del>red</del> 116- <del>red</del> 117- <del>red</del> 118- <del>red</del> 119- <del>red</del> 120- <del>red</del> 121- <del>red</del> 122- <del>red</del> 123- <del>red</del> 124- <del>red</del> 125- <del>red</del> 126- <del>red</del> 127- <del>red</del> 128- <del>red</del> 129- <del>red</del> 130- <del>red</del> 131- <del>red</del> 132- <del>red</del> 133- <del>red</del> 134- <del>red</del> 135- <del>red</del> 136- <del>red</del> 137- <del>red</del> 138- <del>red</del> 139- <del>red</del> 140- <del>red</del> 141- <del>red</del> 142- <del>red</del> 143- <del>red</del> 144- <del>red</del> 145- <del>red</del> 146- <del>red</del> 147- <del>red</del> 148- <del>red</del> 149- <del>red</del> 150- <del>red</del> 151- <del>red</del> 152- <del>red</del> 153- <del>red</del> 154- <del>red</del> 155- <del>red</del> 156- <del>red</del> 157- <del>red</del> 158- <del>red</del> 159- <del>red</del> 160- <del>red</del> 161- <del>red</del> 162- <del>red</del> 163- <del>red</del> 164- <del>red</del> 165- <del>red</del> 166- <del>red</del> 167- <del>red</del> 168- <del>red</del> 169- <del>red</del> 170- <del>red</del> 171- <del>red</del> 172- <del>red</del> 173- <del>red</del> 174- <del>red</del> 175- <del>red</del> 176- <del>red</del> 177- <del>red</del> 178- <del>red</del> 179- <del>red</del> 180- <del>red</del> 181- <del>red</del> 182- <del>red</del> 183- <del>red</del> 184- <del>red</del> 185- <del>red</del> 186- <del>red</del> 187- <del>red</del> 188- <del>red</del> 189- <del>red</del> 190- <del>red</del> 191- <del>red</del> 192- <del>red</del> 193- <del>red</del> 194- <del>red</del> 195- <del>red</del> 196- <del>red</del> 197- <del>red</del> 198- <del>red</del> 199- <del>red</del> 200- <del>red</del> 201- <del>red</del> 202- <del>red</del> 203- <del>red</del> 204- <del>red</del> 205- <del>red</del> 206- <del>red</del> 207- <del>red</del> 208- <del>red</del> 209- <del>red</del> 210- <del>red</del> 211- <del>red</del> 212- <del>red</del> 213- <del>red</del> 214- <del>red</del> 215- <del>red</del> 216- <del>red</del> 217- <del>red</del> 218- <del>red</del> 219- <del>red</del> 220- <del>red</del> 221- <del>red</del> 222- <del>red</del> 223- <del>red</del> 224- <del>red</del> 225- <del>red</del> 226- <del>red</del> 227- <del>red</del> 228- <del>red</del> 229- <del>red</del> 230- <del>red</del> 231- <del>red</del> 232- <del>red</del> 233- <del>red</del> 234- <del>red</del> 235- <del>red</del> 236- <del>red</del> 237- <del>red</del> 238- <del>red</del> 239- <del>red</del> 240- <del>red</del> 241- <del>red</del> 242- <del>red</del> 243- <del>red</del> 244- <del>red</del> 245- <del>red</del> 246- <del>red</del> 247- <del>red</del> 248- <del>red</del> 249- <del>red</del> 250- <del>red</del> 251- <del>red</del> 252- <del>red</del> 253- <del>red</del> 254- <del>red</del> 255- <del>red</del> 256- <del>red</del> 257- <del>red</del> 258- <del>red</del> 259- <del>red</del> 260- <del>red</del> 261- <del>red</del> 262- <del>red</del> 263- <del>red</del> 264- <del>red</del> 265- <del>red</del> 266- <del>red</del> 267- <del>red</del> 268- <del>red</del> 269- <del>red</del> 270- <del>red</del> 271- <del>red</del> 272- <del>red</del> 273- <del>red</del> 274- <del>red</del> 275- <del>red</del> 276- <del>red</del> 277- <del>red</del> 278- <del>red</del> 279- <del>red</del> 280- <del>red</del> 281- <del>red</del> 282- <del>red</del> 283- <del>red</del> 284- <del>red</del> 285- <del>red</del> 286- <del>red</del> 287- <del>red</del> 288- <del>red</del> 289- <del>red</del> 290- <del>red</del> 291- <del>red</del> 292- <del>red</del> 293- <del>red</del> 294- <del>red</del> 295- <del>red</del> 296- <del>red</del> 297- <del>red</del> 298- <del>red</del> 299- <del>red</del> 300- <del>red</del> 301- <del>red</del> 302- <del>red</del> 303- <del>red</del> 304- <del>red</del> 305- <del>red</del> 306- <del>red</del> 307- <del>red</del> 308- <del>red</del> 309- <del>red</del> 310- <del>red</del> 311- <del>red</del> 312- <del>red</del> 313-<

95

9.81

9.87  
9.82  
9.82

JOURNAL - GRID DATA

GRID <sup>E</sup> MC: P. californicus (p2)

[illegible]





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID <sup>R</sup> (C: P. boylii (p.1))

post-estus, anisotropy values

Nov - 022401

Spp	No.	Wt	Sex	Age	Bdyg	Dec	May 26 (pm)	May 27 (am)	May 27 (pm)	May 28 (am)	May 28 (pm)	May 29 (am)	May 30 (pm)	May 31 (am)	May 31 (pm)	June 1 (am)	Comments
P. boylii	04200	26.5	♀	m	Post-LAC. IMP.	5,17										10	
	0311	23.0	♀	early m	PERF. PAR.	6,17	6,17	6,17	7,18	7,18	7,18	7,18				7,18	
	0240	29.0	♀	m	POST LAC. IMP.	8,10											
	01111	18.0	♀	SAD	IMP. NULL.	8,10	8,10					8,10	6,10				
	010	25.0	♂	m	SCROTAL	7,9	7,9	7,11	8,10			7,9					
	0310	25.0	♂	m	SCROTAL	5,8											
N	01441	20.0	♂	early m	TND	4,9											
	01141	20.0	♀	SAD	IMP. NULL.	4,10				3,11							
	03300	32.0	♀	m	pregnant			7,9		7,11							
	01121	20	♀	SAD	in billip			8,10									
	03100	22.5	♀	m	lact			8,11									
N	02004	11.5	♂	Imm	TND			8,12									
	0424	21.5	♀	late	Ref.			8,14				8,14				8,15	
	0340	29.5	♀	m	pregnant			7,11				7,11	7,11	7,11		7,11	
	0440	27	♀	m	post-estus anisotropy			6,9	8,10			6,9	4,10	4,10	4,10	4,10	
	03310	19	♂	m	post-lact			4,9	4,9								
	0410	23.5	♂	m	scrotal			6,15	6,16			6,16	6,15			6,15	
N	02001	18.5	♂	SAD	scrotal			5,10									
	0321	20	♂	early m	TND			4,16								7,16	
	02110	24.5	♀	early m	scrotal			8,15	8,12			8,14	8,15	8,15	8,15	7,14	
	01011	16	♂	Imm	TND			9,17									
	01120	30	♀	m	impl (close) pregnant			8,17	7,16			7,16				7,16	



JOURNAL-GRID DATA

GRID <sup>2</sup> ~~1~~ C: P. boylii (p. 2).

[illegible]



Journal - GRID DAY

Grp 10 RL: P. boylii (p. 3)

It is correct!

June (Am)

May 31 (Sat)

May 31 (Sun)

May 30 (Sun)

May 29 (am)

02211

[illegible]



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

<sup>2</sup>  
GRID ~~AC~~ = *N. fuscipes* + *Perognathus*

Spd	No	Wt	Sex	Age	Budg	Imm.	NULL.	Comments
<i>N. fuscipes</i>	1303	90.0	♀	Imm	Imm.	NULL.		
	1260	160.0	♂	SAD	TND			
	1157	240.0	♀	M	POST LAC.			
	1219	190.0	♀	SWAD	IMP	NULL	LAC	
N	1307	160.0	♀	Imm	IMP.	NULL.		Bobbed tail
	1262	170	♂	LATE S.P.O.	TND			
	1255	170	♀	SAD.	IMP.	NULL.		
	1263	165.0	♂	Early S.AD	TND			
N	1309	85.0	♀	Imm	IMP.	NULL		
	1259	150.0	♀	SAD	IMP	NULL		
	1270	160.0	♀	SAD.	IMP.	NULL.		
	1144	260	♂	M	Scrotal			
1165 →	1310	275	♂	M	Scrotal			tagged left ear 1310
<i>Perognathus</i>	0220	29	♂	M	Scrotal			
	0430	23	♂	M	Scrotal			
	01130	29	♂	M	Scrotal			

2h ~~2h~~



Journal-Geo Data

GRID <sup>12</sup> C: Misc. species

Species	No	Wt	Sex	Age	Body	Dec	May 26 (Pm)	May 27 (Am)	May 27 (Pm)	May 28 (Am)	May 28 (Pm)	May 29 (Am)	May 30 (Pm)	May 31 (Am)	May 31 (Pm)	June 1 (Am)	Comments
<i>Microtus</i>	01320	56.5	♀	M	PERF. PAR.	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	
<i>Microtus</i>	01440	42.0	♂	M	SCROTAL	8,17	8,17	8,17	8,17	8,17	8,17	8,17	8,17	8,17	8,17	8,17	
<i>Microtus</i>	02110	39.0	♀	M	IMP. PAR.	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	6,10	
<i>Microtus</i>	02100	39.0	♂	M	TND	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	5,14	
<i>Microtus</i>	02020	44.5	♀	M	PERFECT, PARAS	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	6,18	
<i>Microtus</i>	01310	47	♀	M	PARAS, IMP.												
<i>Microtus</i>	02120	39	♀	M	UNP. PARAS												
<i>Microtus</i>	0120	55	♂	M	SCROTAL												
<i>Microtus</i>	02040	53.5	♂	M	TND												
<i>Microtus</i>	02010	35	♀	M	PERF. PARAS												
<i>Microtus</i>	02110	54	♂	M	TND (CLAW)												
<i>Microtus</i>	01210	42.5	♀	M	PERF. PARAS												
<i>Microtus</i>	02210	32.5	♀	SAD	WPA, MULLIP												
<i>Peromyscus</i>	01010	20	♀	M	PERF. PARAS												
<i>Peromyscus</i>	01120	16.5	♂	M	SCROTAL												
<i>Peromyscus</i>	01400	9	♂	SAD	TND												
<i>S. bachman</i>	01187	187	♀	Imm													Found dead next to trap



STEINBERG, E.K.  
1988

JOURNAL

Hastings Reservation, Monterey Co., Calif.

GRID RC - western drift fence → GRID (250 meters)

	St	Spp	No	Wt	Sex	Age	Brdg	
June 20	W-20m	P. boylii	0100	25.0	♂	m	scrotal	
	W-30m	P. boylii	031	24.5	♂	m	scrotal	031
	W-50m	N. fuscipes	1259	260.0	♀	m	imp, par	
June 21	② W-10m(S)	P. boylii	02431	19.0	♀	m	imp, par	
New #:	W-10m(N)	P. californicus	1355	41.0	♂	m	scrotal	tag had fallen off
	W-20m	P. boylii	0100	Recap				
	② W-30m	P. boylii	02441	20.5	♂	SAD	TND	
	W-50m	N. fuscipes	1259	Recap				
June 22	② W-10(N)	N. fuscipes	1356	240	♂	m	scrotal	
	W-10(N)	P. californicus	1279	33.5	♀	m	imp, par(?)	
	W-20	P. boylii	0100	Recap				
	W-20	P. boylii	031	Recap				
	② W-50	N. fuscipes	1357	135	♀	imm	imp, null	
June 23	W-10(S)	P. mansuetor	01340	15.0	♂	m	TND	
	W-10(S)	Microtus	02320	18.0	♀	imm	imp, null	both caught on drift fence area
	W-10(N)	Microtus	02310	39.0	♂	m	TND	
	W-10(N)	P. californicus	1279	Recap				
	W-20	P. boylii	071	Recap				
	W-50	N. fuscipes	1259	Recap				



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Hastings Reservation, Monterey Co., Calif.

GRID PC: *P. californicus* only

Spp	Nb	WT	Sex	Age	Budz	Dec 1	June 26 (Am)	June 26 (Pm)	June 27 (Am)	June 28 (Am)	June 28 (Pm)	June 29 (Am)	June 30 (Am)	7	8	9	Comments
<i>P. californicus</i>	✓ 1146	42	♀	M	Imp (curstn) parous	5,12	4,13	5,12									1-dusked PURPLE
↓	✓ 1227	35	♂	M	scrotal (bawdy)	7,11		5,10			5,10						5-covered w/ ORANGE
	✓ 1225	35.5	♀	early M	perforate nullip	5,8						5,9					
	✓ 1257	29	♂	late SAD	TRID	4,8			5,8	4,8		4,8	4,9				2-nose (rostrum) speckled
	✓ 1269	28	♂	SAD	TRID	5,9	5,9					6,9					6 - Orange visible in ears
	✓ N 1359	18.5	♀	Imm	Nullip	5,11	5,11			6,10	6,11	6,11	6,11				1-re turned to lab
	✓ N 1360	22	♂	Imm	TRID	7,15			5,13	5,14	5,16		5,16				5-covered w/ ORANGE
	✓ N 1361	24	♂	Imm	TRID	5,15				4,16	5,15	5,14	5,15				4-no sign of powder - ORANGE
	✓ 1222	31	♀	Early M	perforate nullip	6,16						4,13					1 returned to lab
	✓ 1264	40.5	♂	M	scrotal	6,18							6,18				
	✓ 1261	32	♀	M	imp, nullip	5,18	6,17	5,18	6,16	5,17			5,17				5 - Ant green visible in stern only
	✓ 1349	30	♀	SAD	imp, nullip	7,16	7,16	7,16			5,15	5,12	5,12				7 - ORANGE on ear tag
	✓ 1307	30	♂	SAD	TRID	4,15			5,17	5,12	6,11		7,9				5 - Covered fresh ORANGE
	✓ 1152	39	♂	M	scrotal		9,17				6,9						5 - Covered w/ fresh ORANGE
	✓ N 1364	25	♀	SAD	perf, nullip				8,12								3 - returned to lab. White tail tip
	✓ N 1305	19.5	♀	Imm	imp, nullip				6,11				5,12				
	✓ 1137	50	♀	M	pregnant, p-1				6,10	5,10			5,10				3 - Dusked ORANGE
(W25)	✓ 0400	38	♂	M	scrotal (bawdy)												4 - Reduced 7 - Reduced
(1181)	✓ 1142	40	♀	M	lactating * (Lactation)				4,13	4,13							p.e.t., but lost tag. Tag # 0400 swollen, so I cut it. Covered w/ PURPLE POWDER
	✓ 1979	44.5	♀	M	imp, parous				6,16								CRANE BIRTH in trap!! Young - 3.73g - partially eaten on rostrum } see spp acct! Returned to lab 3.75g - 5-released
	✓ 1233	39	♂	M	scrotal				6,17	6,17	6,17		5,17				3 - Dusked RED
	✓ N 1308	44	♀	M	preg?				5,17	5,17	6,16	5,17					3 - Dusked GREEN
	✓ 1155	41	♂	M	scrotal				6,16			6,18					4 - no sign of powder 6 - RED in ears



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Hastings Natural History Reservation, Monterey Co., Calif.

GRID TC = *P. californicus* only (p2)

SPP	WB	WT	Sex	Age	Bdyg	Dec	1	2	3	4	5	6	7	8	9	Comments
<i>P. californicus</i>	✓ 1720	33	♂	M	TWD											4-curved with faint PURPLE
✓	1355	30.5	♂	M	Scrotal								3.8			+C - 0300
✓	1279	34	♀	early M	imp, nullip											
✓	1944	41	♂	M	Scrotal								6.16	6.16		





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Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: P. boylii only

[illegible]

40, 18

late  
20 & 500, up, nullup

03241

N

Hastings Reservation, Monterey Co., Calif.

GRID PC: *P. boylii* Only (p 2).

Sex	No	Wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	Comments
<i>P. boylii</i>	N 03121	19	♀	SAD	unp, nullip			5, 8		5, 8						
↓	0211	21	♀	M	0-lact. imp, parous			7, 17								2* see spp Acct (P boylii)
	0210	25.5	♀	M	p-lact parous			8, 15		9, 15			8, 15			
	N 03131	10	♀	Im	nullip			7, 14				7, 14				
	01111	21	♀	M	unp, parous			7, 9								
	031300	28.5	♀	M	parous, puppat			7, 11		7, 9			7, 11			tail bobbed repeated
	02000	19	♂	SAD	TND			7, 12								
	02111	19.5	♂	Early M	TND			5, 8								
	0310	24	♂	M	scrotal			3, 8				3, 8				
	02011		♂	SAD	TND			4, 9								head wt repeated
	N 03141	18.5	♂	SAD	TND				8, 10							
	N 03201	19.5	♀	SAD	unp, nullip				8, 12			8, 12				
	010	22.5	♂	M	scrotal				7, 11							
	03120	22	♀	M	unp, parous				6, 11							
	N 03211	13.5	♀	Im	nullip				6, 9	5, 8	5, 8		5, 8			
	N 03221	13	♂	Im	TND				5, 8			5, 8				
	0440	28	♀	M	unp, parous, p-l.				4, 9			4, 9	4, 9			
	01411	22	♂	M	TND				4, 9	4, 9	4, 9	4, 9	4, 9			
	0401	23	♂	M	TND (clasp)				5, 9							
	N 03231	12	♂	Im	TND				5, 11		4, 12		4, 12			
	0410	24.5	♂	M	scrotal				4, 16	6, 15	6, 15	6, 15	6, 15			
	01011	21	♂	M	TND				9, 17			9, 17				
	0311	21	♀	M	unp, parous?				8, 18			7, 18				repeated



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JOURNAL GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID PC: P. boylii only (p 3)

New 03311 } about 1001  
03321  
03331-  
03341

Spa	No	WT	Sex	Age	Bdyg	Occ	1	2	3	4	5	6	7	8	9	Comments
P. boylii	N 03241	20	♀	late SAD	imp, nullip				8, 18	8, 18	9, 18	9, 18				
↓	1211	22	♂	M	TND				8, 18	8, 18	<del>8, 18</del>					
	0430	30	♂	M	scrotal				8, 16	8, 16	8, 16	8, 16	8, 16			
	04110	29	♀	M	lact				3, 11				3, 11			
	N 03301	12	♂	Imm	TND				5, 8				5, 8			
	02110	24	♂	M	scrotal (early)				8, 14							
	N 03341	20.5	♀	late SAD	imp, nullip				8, 10							
	0440	27	♀	M	imp, preov							4, 9				
	0420	25	♀	M	lactating							4, 16				
	N 03331	19	♀	early SAD	imp, nullip							4, 10				
	0140	23	♀	M	lactating							8, 18				
	N 03401	13	♀	Imm	imp, nullip							9, 10				
	N 03411	19	♀	early M	imp, nullip								4, 13			
	02004	18.5	♂	SAD	TND								6, 15			

clipped out of sequence due to too many

repeated



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID PC: *N. fuscipes* & *Perognathus*

Sex	No	WT	Sex	Age	Body	One	2	3	4	5	6	7	8	9	Comments
<i>N. fuscipes</i>	1259	1165	♀	SAD	imp, nullip	4,8	4,8		4,8	4,8	4,8	4,8			
	1260	190	♂	SAD	TND	4,10	4,10			4,10	4,10	4,10			
	1309	140	♀	Imm	nullip, imp	5,16	5,16	5,16	5,16	5,16	5,16				
	1302	73	♂	Imm	TND	7,17						7,17			
	1263	200	♂	SAD	TND	7,18									3-glands extruded
	1306	200	♂	M	TND*			3,8				6,17			
	1367	180	♀	M	TND			8,15	8,15	8,15	8,15	8,15			
	1202		♂	SAD	TND			4,15		4,14	4,14	4,14			
	1368	71.5	♂	Imm	TND			4,15	4,15						
	1370	80	♀	Imm	nullip			7,17	7,17	7,17	7,17				
	1371	245	♂	M	TND			9,18	9,18			9,18			
	1373	71	♀	Imm	nullip			5,15	5,15	5,15		5,15			
	1219	205	♀	M	lact			7,11	7,12						
	1157	210	♀	M	imp, p. abs					5,9					tail bobbed
	1377	100	♀	Imm	imp, nullip					7,15					
	1378	170	♀	SAD	imp, nullip					7,17					
	1923	250	♀	M	post-lact, p. def, p. abs					7,18					6-caught in water
<i>Perognathus</i>	01220	21	♂	SAD	TND	6,13									1-winged, wound up in pocket
	01230	19.5	♂	SAD	TND	6,10				5,11		5,11			
	0120	205	♂	M	SAD			4,18							





JOURNAL-GRID DATA

GRIDRC: Microtus; Misc.

[illegible]



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID DC: Spot checks for P. californicus

SPR	No	WT	Sex	Age	Brdg	Occ	1	2	3	4	5	6	7	8	Comments
<u>P. californicus</u>	1727	37.5	♂	m	TND	July 11 (p)	6,9	6,9	6,9	6,9					
✓	1359	25.5	♀	imm	Nullip		6,11								1 - orange 1 - ed + 103
	1364	29	♀	imm	imp, par		7,12	7,12							
	1949	45	♀	m	pregnant (3) TND	July 13 (Am)	7,16	7,16	6,17	6,17					1 - white 2 - redusted 22 = 41.5g: birth?
	1155	39	♂	imm	TND		7,13	7,13							3: weights 38.5g x am 12 July (late 5 AD) - trap miss
	1307	32	♂	m	TND	July 14 (Am)	6,11	6,11	5,17						2 - had lost ear tag - toe clipped
	0400	36	♂	m	scrotal		5,12								
	1226	34	♂	early m	TND		4,13	4,13							
	1361	30	♂	SAD	TND	July 15 (Am)	6,13	5,13	5,14						
	1360	26.5	♂	imm	TND		6,14	6,14							
	1261	35	♀	m	imp, par		5,17								2 - red powder in ears
	1955	43.5	♂	m	scrotal		5,17	5,17							
	1137	42.5	♀	m	imp, par - post lact.		7,9	7,9							3 - dusted ORANGE
	1146	42	♀	m	imp, par		5,13	5,13							3 - dusted PURPLE
	1233	40	♂	m	SCROTAL		6,13	6,13							
	1269	31.5	♂	early m	TND		5,10	5,10							
	1944	42.5	♂	m	scrotal (baldy)		6,13	6,13							

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11. 11. 11.

JOURNAL-GRID DATA

GRID RC: P. californicus only

[illegible]



Journal-GRID Data

GRID RC: P. boylii only (p. 1)

SP	No.	Wt	Sex	Age	Bldg	Dec	1	2	3	4	5	6	7	8	9	10	Comments
P. bairdi	02011	18	♂	ad	TND		4,9	4,9		4,9		5,8		5,8			
↓	01300	24	♀	m	imp, parous		5,8	5,8		3,8	5,8	5,8		5,8		3,8	missing ear, tail bobbed
	02411	21	♀	ad	imp, nullip		8,14			7,15	6,15	7,15		6,15	6,15		
	03100	22	♀	m	imp, parous		8,12	8,12		8,12							
	03110	22	♂	m	TND			8,13	8,13	8,13							
	02110	22	♂	m	scrubbed (badly)		8,14					7,14		8,14		8,14	2-8,14
	03141	17	♂	m	TND		6,11			6,11		6,11		6,11		6,11	
	03041	21	♂	SAD	TND		6,9			5,11		6,9		5,11	5,11		
	03021	21	♂	m	TND		4,12	4,12				4,12	4,12	4,12		4,12	
	04440	27	♀	m	imp, parous		4,13	4,13							5,9		
	03524	21	♀	m	imp, nullip		4,18			5,18				4,18			tail bobbed
	0200	23	♀	m	imp, post-lact		4,18	4,18		4,18							tail bobbed
	02041	24	♂	m	TND (close)		4,18					4,18					
	02030	23	♂	m	TND		8,16			8,17		7,16		8,16			
	03401	19	♀	Imm	imp, nullip		9,18			9,18		9,18					
N	04241	17	♂	ad	TND				9,18	9,18							
	0311	22	♀	m	imp, parous			7,17	8,18		7,17		8,18		8,18	7,17	
N	04301	13	♀	Imm	imp, nullip			4,18				4,18	4,18	4,18			(tail) 3-4,18
N	04311	17,5	♀	Imm	multip, imp				8,10								
	010	23	♂	m	TND (close)												
	04410	23,5	♂	m	TND					8,10		8,10		8,10	8,10		
	031500	28	♀	m	imp, parous					8,13		8,12	8,12	8,12			
	03330	23	♀	m	imp, parous					7,11		7,11				8,10	
(N)	04331	21	♂	SAD	TND					5,11		4,12					5,11

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430  
170  
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Journal - GRID Data

Grid RL: P. boylii (PZ)

[illegible]

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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID DC: N. fuscipes only

Spp	No	wt	Sex	Age	Brdg	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<u>N. fuscipes</u>	1367	205	♂	early m	TND		8,15	8,15	8,15	8,15		8,15		8,15	8,15	7,15	
✓	1309	165	♀	SAD	imp, nullip		6,16			4,13					4,13		
	1255	200	♀	early m	imp, nullip		5,16		5,16	5,16		5,16		6,16	5,16	5,16	3-National 6-National
	1370	125	♀	imm	imp, nullip		6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	
	1368	135	♂	imm	TND		4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	9-5,15
	1375	115	♀	imm	imp, nullip		5,15	5,15	5,15	5,15	5,15	5,15	5,15	5,15	5,15	6,16	
	1260	215	♂	SAD	TND		4,10	4,10		4,10							
	1259	185	♀	SAD	imp, nullip		4,8	5,16	4,8	4,8	4,8	4,8	4,8	4,8	4,8	4,8	
N	1385	285	♂	m	scrub		8,13								8,12		
N	1390	260	♂	m	scrub			5,13	5,13		5,13				5,13	5,13	2-National
	1157	225	♀	m	imp, parous		6,9	6,9	6,9	6,9	6,9	6,9	6,9	6,9	6,9	6,9	2-triggered left ear, about to lose 2nd leg
	1310	305	♂	m	scrub		5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	
	1144	245	♂	m	TND		5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,10	5,10	
N	1390	285	♂	m	scrub		4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	2-triggered before tagging 4-National
	1377	130	♀	SAD	imp, nullip		7,15	7,15	7,15	7,15	7,15	7,15	7,15	7,15	7,15	7,15	
	1263	210	♂	m	TND		6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	6,17	
	1371	235	♂	early m	TND		9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	9,17	
N	1388	250	♂	m	scrub		7,17	7,17	7,17	7,17	7,17	7,17	7,17	7,17	7,17	7,17	
	1270	205	♀	m	imp, nullip(2)		4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	tag clipped around
	1249	230	♀	m	imp, post-lact					7,12	7,12	7,12	7,12	7,12	7,12	7,12	
	1948	250	♀	m	imp, post-lact					4,15	4,15	4,15	4,15	4,15	4,15	4,15	
	1267	200	♀	sub m	re part., nullip												
"N"	1391	340	♂	m	scrub												overmature-tagged & ripped out.
N	1393	240	♀	m	imp, parous												

(See N. fuscipes also on White Page)



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID 12C: Miscellaneous spp.

					Date		Comments	
					Dec	1	2	3
Spp	Ab	WT	Sex	Age	Bdgy			
	02110	43	♂	M	TND			
	02020	45	♀	M	unsp. parous			
	02010	38	♀	M	impr. parous			
	02100	42	♂	M	TND			
N. fuscescens	01440	44.5	♂	M	TND			
	1262	235	♂	M	TND			
P. pacificus	1328	185	♀	M	unsp. nullip.			
	01410	19	♂	SAD	TND			
P. maniculatus	01300	24	♂	M	TND			
	01410	12.5	♀	unm. nullip.	ing			
D. maculatus	01440	6.5	♂	Im	TND			
	1384	585	♂					
Sylvia s. auduboni								

R. megalops - 12000  
P. maniculatus - 140

July 21 (Pm) 1  
July 22 (Am) 2  
July 22 (Pm) 3  
July 23 (Am) 4  
July 23 (Pm) 5  
July 24 (Am) 6  
July 24 (Pm) 7  
July 25 (Am) 8  
July 25 (Pm) 9  
July 26 (Am) 10

drift fence animal

4,13

4,15



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif  
GRID RC: P. californicus only

Spp.	No	wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	Comments
<u>P. californicus</u>	1304	32	♀	M	imp, nullip	7,13	5,13	5,13	5,13	7,12	7,12	7,12			Last number observed by ea. 1? or 4? Most likely 4 3-tail coll.
✓ 1137	1155	39.5	♂	M	TND	5,13	5,13	7,12	5,13	5,12					3-tail coll.
1141	1226	36.5	♂	M	TND	5,12		5,16							3-tail coll. TC # Q30. loose et
1143	1414	20.5	♂	SAO	TND	7,12	7,15	7,15	7,18	8,17					returned to lab for histology
1137	1227	39	♂	M	TND (cloud)	6,11	5,9	6,9	6,9	5,10					3-tail coll.
1140	1225	37.5	♀	Embry M	imp, nullip	6,9	6,9			4,9					5-tail coll.
1141	1257	32.5	♂	M	TND	5,9	5,9	4,8	4,8	6,9					3-tail coll.
1138	1269	34	♂	M	TND	5,10	6,11			10,11					4-tail coll.
1137?	"N"	42	♀	M	imp, nullip? stage 3?	5,11				5,12					PE-T and upper part. too clipped. something palpable, stomach? 4-tail
1140	1309	35	♀	M	imp, nullip	5,15	5,15	5,15	5,15	5,14					3-tail coll.
1141	✓ 1040	36.5	♂	M	TND	5,16	5,16			6,15					prev. fec. 5-tail coll.
1137	1307	37.5	♂	M	TND	6,17	5,17								rt corner of mouth cut
1140	1955	41	♂	M	TND	5,17	7,16	10,17	5,17	6,18					fixed #210 3-tail stage 10
1140	1233	38.5	♂	M	TND	7,16	6,16	5,16	7,15	6,16					3-tail coll - NB, misplaced. Do again
1141	1979	44	♀	M	imp, parous	7,18	9,18	9,17							3 - " "
1140	✓ 1264	42.5	♂	M	TND			6,18	6,17	5,17					3 - " "





RIBBLE, D.D.  
1988

JOURNAL - ~~DE~~ GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: P. boylii only

0142

Sp.	Ab	wt	Sex	Age	Bdy	Dec	1	2	3	4	5	6	7	8	Comments
<u>P. boylii</u>	010	21.5	♂	M	TND	7,9	7,11	7,9	8,10	8,10					
↓	03201	21	♀	M	up, param	8,11			8,10	8,12					
	03100	21.5	♀	M	up, param	8,12	8,12	7,11			6,13				
	03110	21	♂	M	TND	8,12	5,12	8,12							
	03141	21	♂	M	TND	5,13	6,11	5,14	5,14	5,14	5,13				5-5,13.
	03130	26	♀	M	up, param	7,11	7,9	6,11	7,11	8,10					
	2201	21.5	♀	Early M	up, nullip	6,10	4,9	6,10	4,10	6,10					
	03221	20	♂	Early M	TND	5,8	5,9	5,8	5,8	5,8	5,8				
	02011	20.5	♂	M	TND	5,8	4,9	4,9	4,9	5,8	5,8				
	01300	24	♀	M	up, nullip	3,8	3,9	3,8	3,8	3,8	3,9				tail balled
	0310	22	♂	M	TND	3,8	3,9	3,8		3,8	3,8				
	03200	24	♀	M	up, param	3,9	3,9			3,9	4,10				
	0401	22	♂	M	TND	4,10		4,9			4,10				
(N)	0122	19.5	♀	Early M	up, nullip	3,11	3,11			3,11	4,12				
	04331	21.5	♂	M	TND	3,11	5,11	5,11	5,11	3,11					
	03021	20.5	♂	M	TND	4,12	4,12	5,11	4,12	5,11					
	02110	23.5	♂	M	TND	7,14	7,14	7,14	7,14	8,14					
	0200	23.5	♀	M	up, param	5,18	5,18	5,18	5,18	5,18	5,18				
(N)	0132	21	♂	Early M	TND	4,16	4,17			4,17					
	04200	24	♀	M	up, param	4,16	4,16	4,16		4,16					
	02030	22	♂	M	TND	7,16	8,17	8,17		7,16					
	0311	21.5	♀	M	up, nullip	8,16	7,18	7,16	7,16	8,16					
	04241	19.5	♂	Early M	TND	9,17		9,17	9,17	9,17	9,18				



JOURNAL - GEO DATA

GRID RC: P. boylii (P.Z)

Spp.	No	wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	Comments
<i>P. baylii</i>	03121	20.5	♀	M	wp, nullip	<del>4</del>	4,18			4,18	4,18				
✓	03401	19.5	♀	Early M	wp, nullip(?)		9,17			9,17	9,17				
	0430	29.5	♂	M	RND (clean)		9,17			8,14	8,16				
	03241	21.5	♀	M	wp, nullip		8,18			9,18					
	04341	20.5	♀	M	wp, nullip		8,18			8,18					
	03130	27.5	♂	M	RND (clean)		3,11								
	04070	23.5	♂	M	RND				4,14	4,14	5,14				
	0210	23.5	♀	M	wp, paras				7,15	8,14	7,15				
	04410	24	♂	M	RND				7,16	7,16	7,16				
N	0232	18	♀	Early M	wp, nullip				6,18	8,18	6,17				
N	0242	24	♀	M	wp, paras				4,16		4,16				
	01030	23.5	♂	M	RND					6,9					
N	0322	24.5	♀	M	wp, paras					3,8	3,8				
N	0332	20	♀	M	wp, nullip					4,9					
N	0342	19	♀	Late SAD	wp, nullip					3,11					
N	0402	23	♂	M	RND					8,18	8,18				
N	0432	17	♀	SAD	wp, nullip						3,11				
"N"	0400	18.5	♂	M	RND						5,18				Taxid, put in pocket, returned in good shape in Pul. Probably a natural toe loss, so this is a new animal.



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1989

JOURNAL - GEO DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: P. boylii (P.Z)

Spp.	No	wt	Sex	Age	Body	Dec 1	2	3	4	5	6	7	8	Comments
<i>P. boylii</i>	03121	20.5	♀	M	wp, nullip	<del>4</del>	4,18		4,18	4,18				
↓	03401	19.5	♀	Early M	wp, nullip(?)		9,17		9,17	9,17				
	0430	29.5	♂	M	RND (claw)		9,17		8,14	8,16				
	03241	21.5	♀	M	wp, nullip		8,18		9,18					
	04341	20.5	♀	M	wp, nullip		8,18		8,18					
	03130	27.5	♂	M	RND (claw)			3,11						
	04070	23.5	♂	M	RND			4,14	4,14	5,14				
	0210	23.5	♀	M	wp, parous			7,15	8,14	7,15				
	04410	24	♂	M	RND			7,16	7,16	7,16				
N	0232	18	♀	Early M	wp, nullip			6,18	8,18	6,17				
N	0242	24	♀	M	wp, parous			4,16		4,16				
	01030	23.5	♂	M	RND				6,9					
N	0322	24.5	♀	M	wp, parous				3,8	3,8				
N	0332	20	♀	M	wp, nullip				4,9					
N	0342	19	♀	Late SAD	wp, nullip				3,11					
N	0402	23	♂	M	RND				8,18	8,18				
N	0432	17	♀	SAD	wp, nullip					3,11				
"N"	0401	18.5	♂	M	RND					5,18				Toid, put in pocket, returned in good shape in Pul. Probably a natural for loss, so this is a new arrival.



RIBBLE, D.D.  
1988

JOURNAL GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: N. Fuscipes ; Perognathus

1262

Sep.	No.	Wt	Sex	Age	Body	Dec	Sept 18 (Am)					Comments
							1	2	3	4	5	
N. Fuscipes	1390	235	♂	M	RND	4,13				5,15	4,14	5-10ale
N	1415	245	♂	M	Scrub	6,16			6,16	4,15	4,15	4-natural 5-10ale
	1320	160	♀	SAD	unp, nullip	6,17	6,17	6,17	7,17	7,18	6,17	
Adm ~ 22.5												
	1267	200				4,18			4,18	4,18		
	1377	150	♀	SAD	unp, nullip	8,15	7,15	8,15				
N	1416	235	♂	M	RND	7,17	7,17		- found dead in trap. Covered with urine			Cat # 908
	1393	160	♀	SAD	unp, nullip	9,18	9,18	9,18				2- TARDID took horns and moved to head N. Released 18 Sept about 1000 hrs, 50 ft left #1417. Tail bobbed
15" N"	1219	210	♀	M	unp, parous	7,13	7,13					200- tag ripped out. 18 tagged left 20
	1418	200	♀	M	unp, nullip	7,18	7,18	7,18	7,18	7,18	7,18	
	1309	185	♀	M	unp, nullip	4,15	4,15	4,13	4,13	4,13	4,14	
	1367	220	♂	M	RND			8,13	8,12			
	1259	185	♀	M	unp, nullip (13)			4,8	4,8			
	1144	225	♂	M	RND			5,10	5,10	5,10	5,10	2 boots on rt shoulder 4-natural, 5-nat
	1260	195	♀	M	unp, parous			4,10	4,10	4,10	4,10	3-natural 4-nat
	1240	190	♀	M	unp, parous			4,14	4,14	4,13		3-nat 4-nat
N. Fuscipes	1263	240	♂	M	RND			6,18	6,17	5,15		3-4-nat 4-nat
Perognathus (N)	01430	23	♂	M	RND	7,12				7,12		3-nat 4-nat 5-nat
	01010	225	♂	M	RND	4,12						
(N)	01440	215	♂	M	RND	6,15	6,14	6,14	6,14			
(N)	02000	225	♂	M	RND	4,18				8,12		
	01430	23	♂	M	RND		1,12	6,11	6,11	7,10		
(N)	02040	25	♂	M	RND		6,16	6,16			6,16	
	01410	22	♂	M	RND						5,11	





JOURNAL - GRID DATA

GRID RC: Misc

[illegible]



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID DATA *P. californicus* only

SPP	Alb	WT	Sex	Age	Body	Occ	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	10210 1955	44	♂	M	TND (claw)	Occ	5, 17	6, 18			7, 16	6, 10				1, 16	5 - Red visible in ear only 10 - RED visible everywhere
	1233	39	♂	M	Scrotal		5, 16	6, 16	7, 16	5, 14		6, 16	6, 16	5, 16	5, 16	6, 15	7 - 2 ears rimmed w/ 10-15% RED 8 - Green visible on head 9 - no visible purple
	1389	37	♀	M	perf, nullip		5, 16	5, 15	6, 16	5, 16	5, 16	5, 14	6, 15	5, 14	6, 16	6, 16	5 - Dusted Green 7 - Red dusted
	1979	45	♀	M	up, pinous		7, 18			7, 18		7, 18			9, 18		1 - dusted RED 6 - Red dusted
	1444	31	♂	Calby M	TND		7, 16	7, 16	6, 17	6, 17	6, 18	6, 17	7, 16	7, 18	7, 16	6, 17	3 - Red visible (ear, mouth, feet, tail) 9 - Fresh RED powder like in mouth about 10 loose tag. TC # 0420 0420
(P420) (0420)	1307	40	♂	M	TND		4, 13			5, 17						5, 17	10 - lost ea. tag 7 - dusted brownish Brown
	1304	33.5	♀	M	up, nullip		5, 12	4, 13					5, 12				ea. tag loss, p. 12. Not sure about RED 5 - maybe lost naturally - toe 12 there # 020
	8020 8200	44	♀	M	up, pinous		6, 11	5, 11								6, 10	loosing ea. tag TC # 0130
(6130)	1224	40.5	♂	M	scrotal (bumpy)		6, 9	6, 11		6, 9	6, 10	5, 10	6, 11	6, 10	6, 11	6, 10	8 - Purple visible on ear 9 - Purple on ear only
	1257	36	♂	M	TND		5, 8			5, 8	5, 8	4, 9	4, 9	4, 9	4, 9		9 - covered (everywhere) w/ 10% RED Brown
	1155	40.5	♂	M	TND			5, 12		4, 13		5, 12		5, 12	4, 13		8 - Purple visible on ear
	1218	37	♂	M	TND			6, 9	6, 9	4, 9		5, 11		5, 11		5, 11	9 - GREEN visible in ears only
	0400	40	♂	M	Scrotal			6, 16	5, 14	6, 15				6, 16	6, 15		
	1225	39.5	♀	M	up, nullip				4, 8				4, 9		5, 8	5, 8	maybe pregnant, 7 - dusted Purple
	1264	42	♂	M	TND (claw)												26!
	1217	37	♀	M	up, nullip					6, 18				6, 18			drift fence animal



## Journal-Grid Data

GRID RC: P. boylii only (p.1)

[illegible]



JOURNAL-GRID DATA

GRID 2C: P. baylis (p. 2)

[illegible]





JOURNAL-GRID DATA

GRID RC: N-fuscipes only

SPP.	No	wt	Sex	Age	Budg	Occ	1	2	3	4	5	6	7	8	9	10	Comments
<i>N. A. sepioides</i>	1415	270	♂	M	scrotal		4, 15						4, 16			4, 15	7 - left in trap overnight
	1259	180	♀	M	up, param		4, 8			4, 8				4, 8			
	1327	160	♀	M	up, nullip?		7, 15					7, 15		7, 15		7, 15	
	1370	180	♀	M	up, param		4, 17	4, 16	7, 17			6, 17		6, 17		7, 17	bot on back
	1267	200	♀	M	up, nullip		4, 18	4, 18	4, 18	4, 18				4, 19	4, 19		9 - left in trap overnight
	1255	220	♀	M	up, param					4, 16		5, 16					
	1312	230	♂	M	scrotal							7, 13					
	1270	200	♀	M	up, param							5, 13			4, 14		9 - death - left in trap overnight
	1263	155	♂	M	scrotal							5, 15					wt = 255?
	1104	265	♀	M	up, param									4, 16			
"N"	1439	205	♂	M	RND										5, 9		2 ear tags ripped out, not used
	1260	190	♂	M	RND (clean)										4, 10		left in trap overnight
	1417	210	♀	M	up, param											7, 13	caught in death, left in trap overnight



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: *Microtus*, *Perognathus*, & Misc.

Perognathus - 02130  
TR. wgs - 02100  
P. wgs - 01120

SPP.	No	wt	Sex	Age	Bridge	Occ	1	2	3	4	5	6	7	8	9	10	Comments
<i>Microtus</i>	01440	58	♂	M	scrub		6,18	5,17			5,17	5,17		5,17	6,18	5,17	
↓	02020	45.5	♀	M	perf. paws		7,19	6,18			5,17	5,17		6,18			upper incisor broken
	02120	42	♀	M	lacking up, paws		6,14			6,15					6,15		
	02310	43.5	♀	M	up, paws		6,10										
	02010	38	♀	M	up, paws?		6,10							5,18			
	02210	310	♀	2 wks	up, mullup?						4,13	4,13					
	02020	55	♂	M	scrub						4,13	6,18			6,18	4,18	
	02110	57.5	♂	M	scrub								4,13				
	01320	59	♀	M	perf. lacking											6,18	
<i>Perognathus</i>	0430	22	♂	M	TRD			7,9		7,9		7,9		7,9		7,9	
↓	01410	23	♂	M	TRD			4,9			4,9		5,11	5,11			
	01430	23	♂	M	TRD			7,14	6,10		5,12					7,13	
①	02110	22	♂	M	TRD			5,18	5,18			5,18	4,11	4,10	5,18	5,18	
	01420	25	♀	M	up, paws												

S. trawbridgei  
Cat # 926

6,17

Monality

② *Microtus*  
02100 4.5 ♀ M up, mullup  
③ 02110 7 ♀ M up, mullup (3)

3,10

7,18



Journal-GRID Data

GRID 2C: P. californicus only

[illegible]





RIBBLE, D.D.  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID PC: *P. boylii* only

Spp	No	wt	Sex	Age	Brdg	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>P. boylii</i>	0242	25.5	♀	M	up, nullip	4,15	4,15					4,16				
↓	04241	21.5	♂	M	TND	9,13	9,13	9,13	9,17	4,16			9,18			
	03401	21	♀	M	up, nullip	9,17			9,16		9,17	9,17	9,17			
	02110	24.5	♂	M	TND	6,15			8,14	6,15		8,17		8,16		
	012	22	♀	M	up, nullip		5,12	4,13	5,13	5,11	4,12	5,14	5,11	5,13		
	031300	26	♀	M	up, parous pregnant?	7,10	7,10		8,10				6,11	6,11		
	0332	22	♀	M	up, nullip	5,8	5,8		5,8		5,8		5,8	5,8		
	03200	24	♀	M	up, parous	3,8	3,8	3,8	3,9	3,8	3,8		3,8	3,8		
	02201	22	♀	M	up, nullip	4,10	4,10	4,10	4,10	4,10		4,10	4,10	4,10		
	04331	21	♂	M	TND (close)	3,11	3,11		3,11	3,11			4,12	4,12		
	0342	23.5	♀	M	up, nullip	3,11	3,11	3,11	3,11	3,11		3,11		3,11		10-3,11
	03141	23	♂	M	TND	5,14	5,14		5,14	4,13	5,14	5,14	5,14	4,13		
	03121	21.5	♀	M	up, nullip	4,13	4,13		4,13							
	0311	22.5	♀	M	up, nullip	7,16	7,16	7,16	8,17	8,17	8,17	7,16	7,16	7,16		
	0220	24.5	♀	M	up, parous (3)	8,15	8,15		8,15		8,14		8,15			
	04341	23	♀	M	up, nullip	9,18	9,18						8,18	8,18		
	0112	23	♂	M	TND			4,19				4,18	4,18	5,18		
	01132	22	♀	M	up, parous			9,18	9,18							
	0240	25.5	♀	M	TND			8,14	8,14	6,15		8,17				
	03100	23	♀	M	up, parous			8,12	8,12				7,12			
	0310	24	♂	M	scrotal			3,8								
	0401	23.5	♂	M	scrotal			3,11					3,11			
	010	24	♂	M	TND				7,11							
	0200	22	♀	M	up, parous			4,18	4,18	4,18						









RIBBLE, D.D.  
1988

Journal-GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID 2C: Misc. species

[illegible]



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID RC: *N. fuscipes*

SPP.	No	wt	Sex	Age	Birds	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>N. fuscipes</i>	1263	230	♂	M	scrotal		5, 15			6, 16		6, 17	7, 17	4, 16		5 - 1st left - trap 9 - 1st left
✓	1370	190	♀	M	up, mullip(?)			6, 17	6, 17					6, 17		3 - left in shute, brought back 9 - 1st left & 5 - 1st left
	1260	190	♂	M	TAD			4, 10		4, 10				4, 10		
	1371	175	♀	M	up, mullip			7, 12					7, 15	7, 15		
	1259	180	♀	M	up, mullip			4, 8			4, 8			4, 9		
	1439	295	♂	M	scrotal			5, 9			5, 9			5, 9		4 - 1st left 6 - 1st left 9 - 1st left
	1157	230	♀	M	up, param			5, 0			5, 10			5, 10		1307 - left ear 4 - 1st left 9 - 1st left
	1309	230	♀	M	up, param			4, 13	4, 13	4, 13						
	1270	200	♀	M	up, param			4, 14		4, 15			4, 15	4, 14		4 - 1st left 8 - 1st left 9 - 1st left
	1415	285	♂	M	scrotal			4, 15	4, 15	4, 15			4, 16	4, 15		4 - 1st left 5 - 1st left 9 - 1st left
	1390	295	♂	M	scrotal			4, 14		4, 14		4, 14				5 - 1st left 7 - 1st left
	1367	235	♂	M	scrotal					8, 12						
	1386	270	♂	M	THE TAD (banding)					5, 10						6 - 1st left
	1219	195	♀	M	up, param								7, 13			
	1417		♂	M	up, param								3, 8	4, 9		
	1366	245	♂	M	up, scrotal											
	1267	225	♀	M	up, mullip									4, 18		
Steelebirds	D10	5	♂?		non		7, 16									
Cat	9200	4.5	♀	mullip				6, 10	mortality							
Punctulatus	D1420	19	♂	M	scrotal			5, 18	4, 17		5, 17			4, 16		





Center of Activity

$$\begin{array}{r} 3.625, 7.5 \\ 5.\overline{33}, 10.\overline{166} \\ 6, 10.375 \\ \overline{333}, 7.\overline{33} \\ \overline{3.66}, 7.\overline{666} \\ 3.5, 3.5 \\ 3.6, 3.9 \\ \overline{3.66}, 6.\overline{33} \\ 2.857, 7.143 \\ 3.6, 6.8 \\ 3, 10 \\ 2, 1.\overline{66} \\ 3.75, 2.25 \\ 1, 1 \end{array}$$

GRID TC: D. californicus ONLY

Spp	No	wt	Sex	Age	Bird's	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>Real. Booniew</i>	1114	35	♂	m	WDD (close)	✓	5,10	6,14	7,16	6,10	5,11	6,13	5,17		5,11	b - mungy!
✓	1955	41.5	♂	m	scrotal	✓	8,10	7,16	8,13	7,16					9,10	3 - Covered - Red powder 5-517
✓	1979	44	♀	m	parous imp, pre-laid	✓	8,10	7,16	9,10	9,17	7,10	7,10	9,10	9,10	7,16	1 - Dusted RED 6 - 39g, not laid, not mungy REDUSTED 5 - covered w/ BLUE-GREEN
✓	0480	41.5	♂	m	scrotal	✓	6,15			5,14	5,14		6,15	5,14	5,14	6 - covered w/ visible Blue-green
✓	1233	42.5	♂	m	scrotal	✓	5,14				6,15				6,15	1 - Dusted ORANGE 10 - Dusted ORANGE 2 - Covered w/ visible ORANGE powder 7 - Garden Brown in ear, mouth, feet
✓	020	44	♀	m	parous? imp, pre-laid	✓	5,10	6,11		8,10	6,10				5,11	2 - Dusted BLUE-GREEN 6 - Dusted BLUE-GREEN
✓	0130	44	♂	m	scrotal	✓	5,11	5,11	6,11	6,11	6,11	6,14			6,10	2 - Dusted BROWN 2 - Dusted BROWN
✓	1155	39.5	♂	m	scrotal	✓	5,12				6,14					2 - Dusted BROWN 2 - Dusted BROWN
✓	030	41	♀	m	imp, nullip	✓	5,14	6,15		4,14	5,14	5,14	5,14	4,14		3 - Dusted green 8 - Dusted
✓	1304	36	♀	m	imp, nullip	✓	6,14		6,14		6,14					5 - Orange powder on feet, mouth, ear, nose
✓	1204	42	♂	m	trnd	✓										5 - no powder!
✓	1421	37	♀	m	imp null	✓		5,17	4,9		4,8		4,9			
✓	1269	34	♂	m	trnd	✓	5,8			6,10	6,9			6,10		
✓	1257	35.5	♂	m	trnd (close)	✓				4,8						





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID RC - P. boylii - ONLY

Nov-01332

SEP	No	WT	SEX	Age	Bdgy	Dec 1	2	3	4	5	6	7	8	9	10	Comments
P. boylii	0200	23	♀	M	up, nullip?	4.17		5.18		5.18	5.18	5.18		5.18	5.18	
✓	03121	22	♀	M	up, parous	4.18	4.18		5.18	4.18	4.18	5.18	5.18	4.18		
	03241	21	♀	M	up, nullip	9.18	9.18		9.18	9.18		9.18		9.18	9.18	
	04341	21	♀	M	up, nullip	9.18	9.18	9.18			9.18	9.18				
	0210	25	♀	M	up, parous	9.17	9.17		9.17		9.17		9.17	9.17		
	0311	22	♀	M	early parous? NO up, parous	8.16	8.16	8.16	8.16	8.15	8.16	7.16	7.16	8.16	7.16	
	02110	23.5	♂	M	TND (close)	7.16		7.14	8.15		8.15		8.16			
	03141	21	♂	M	TND	8.12	7.11	6.11	6.11	7.11	6.13	5.13	8.10	6.13	6.11	
	010	23	♂	M	TND	7.9	8.10	8.10		8.10		6.11	6.11	8.10	6.11	
	03400	24.5	♀	M	up, parous	7.11	5.8	8.10	7.10		6.11	7.11	6.11	6.11	7.9	
	0332	20	♀	M	up, nullip (?)	5.8			4.9		5.8	5.8	5.8	5.8	5.8	
	03200	22.5	♀	M	up, parous	3.8			3.8			3.8				
	0310	22	♂	M	TND	3.8					3.8			3.8		
	012	23	♀	M	up, parous	4.12		5.12	5.11	5.12	5.12	5.12	5.13	5.12	5.12	
	04331	23.5	♂	M	TND (close)	3.11	3.11	3.11	4.12	3.11	3.11	3.11	4.10	4.12	4.10	
	02201	22	♀	M	up, nullip	4.10		4.10	3.10	4.10		4.10		4.10	4.10	
	03141	21	♂	M	TND	7.17										
	01030	23	♂	M	TND	5.8	5.8	5.8	5.8	5.8				5.8	5.8	
	0342	21	♀	M	up, parous	4.12			4.12	3.11	4.12		3.11	3.11	3.11	
	01112	21.5	♂	M	TND	5.18						4.18	4.18			
	0430	29	♂	M	scrotal	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	
	0402	23.5	♂	M	TND (close)	8.18			7.18	7.18			8.17		8.18	
	04020	25.5	♂	M	scrotal	4.15	4.15					5.13		5.14		
	0242	26.5	♀	M	up, parous	4.15							5.15		5.15	

mm :

mm

mm

mm

mm

## Journal-Grid Data

GRIDZC - P. boylii

New-01332

[illegible]



RIBBLE, D.O.  
1989

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID PC - *N. fuscipes*

SPP	NO	WT	Sex	Age	Brdg	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>N. fuscipes</i>	1267	220	♀	M	up, parous	4, 8		4, 8								
✓	1370	205	♀	M	up, parous	7, 17	6, 17	8, 17	8, 17	7, 16	6, 17	6, 17	6, 17	8, 17	9, 17	1-left in nest overnight
	1270	195	♀	M	up, parous	4, 14		4, 14							4, 15	
	1259	195	♀	M	up, parous	4, 8				4, 8		4, 8			4, 8	5-nest - left overnight
	1382															
	1158	220	♀	M	up, parous	4, 10		5, 10	5, 10	4, 10			4, 10	4, 10		1-left in nest overnight 5-nest overnight 8-nest 9-nest (overnight)
	1377	160	♀	M	up, nullip	<del>4, 10</del> 7, 15	7, 15		7, 15	7, 15			7, 15		7, 15	
	1263	250	♂	M	scrotal		6, 16	6, 16	6, 16	5, 16				5, 16		2-nest (overnight) 7-nest 9-nest
	1415	260	♂	M	scrotal		4, 16		4, 15	4, 15	4, 15			4, 15		6-nest 7-nest (overnight) 9-nest
" "	1459	250	♂	M	ind			4, 8			4, 8				4, 8	3-105 Tear Tag, not new 10-nest
	1390	290	♂	M	scrotal				4, 14						4, 13	
	1439	290	♂	M	scrotal						5, 10					6-nest
	1309	280	♀	M	up, parous					4, 13			4, 15	4, 13		5-nest - left in trap overnight 9-nest
	1755	215	♀	M	up, nullip							4, 16				7-nest (overnight) 9-nest
	1386	260	♂	M	scrotal							5, 10		5, 10		7-nest (overnight)
	1417															
	1219	185	♀	M	up, parous							7, 12				7-nest (overnight)









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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *Peromyscus californicus* only

PC MC 1 P. DA

Species	No	WT	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	✓ 1023	43	♂	M	scrotal		10,5					9,5	9,6	9,13	9,7	9,7	8 - Covered w/ orange powder
	✓ 1104	36.5	♀	M	impl. ovaries	NO	10,7	9,7	10,9		9,6	9,6	9,6	10,7	9,7	9,7	lactating? Dusted green. 3-10 dusted green. 5-10 dusted
	✓ 1071	37.5	♂	M	scrotal		10,9		9,6	10,8		10,7	9,9	9,9	9,6	9,7	4-3 covered w/ orange powder. 10-10 dusted green. 6-10 dusted
	✓ 1133	29	♀	early SAD	nullop		10,12	10,11				9,9	9,9	9,9	9,9	9,9	6 - covered with RED powder.
	✓ 1110	27	♂	early SAD	TND		10,14	9,13									
	✓ 1121	30.9	♂	M	scrotal		11,13			8,17	10,12	8,17			8,17	10,17	
	✓ 1043	50	♀	M	pregnant (lactating)		9,13	9,13			10,12	10,14			4,9	10,12	Dusted RED. 5-10 dusted red. escaped above station
	✓ 1111	30	♂	SAD	TND		9,10							9,9			9-10 lactating. Dusted RED. 4,9
	✓ 1128	30	♂	SAD	TND			10,5	10,6	10,6				10,6	10,5	10,6	8 - may have orange powder. 9 - Dusty but not orange. 10 -
	✓ 1156	14	♂	Imm	TND			10,12		10,12			9,13		10,11		took to lab for tissues. NO powder. Red on feet from handling. Covered 4-10 dust. 10-10 dust. 10-10 dust.
	✓ 1158	15	Imm					9,9									
	✓ 1071	37	♂	Imm	TND (lactating)				9,6								2 - covered w/ green powder.
	✓ 1076	45.5	♀	M	pregnant						10,6		10,6				5 - Dusted orange. 7 - 10 dusted
	✓ 1141	40	♂	M	scrotal							9,13					10 - no sign of any visible powder.
	✓ 1158	14	♂	Imm	TND											10,9	Teeth to lab to check. Covered on the green powder.
	✓ 1159	30	♂	SAD	TND											10,11	" " Covered with orange powder.



Journal - GRID Data

GRID MC: *P. boylii* only

PBMC P. Dist

[illegible]



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. truei* & *N. fuscipes*

PT MC 1 P-DIX

Species	No.	Wt.	Sex	Age	Body	Dec	Jan 11 (PM)	Jan 12 (am)	Jan 12 (pm)	Jan 13 (am)	Jan 13 (pm)	Jan 14 (am)	Jan 14 (pm)	Jan 15 (am)	Jan 15 (pm)	Jan 16 (am)	Comments
<i>P. truei</i>	0410	21.5	♂	M	scrotal	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	
	01230	19	♂	Early M	TND	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	
	0420	27.5	♀	M	imp. paired, testis swollen	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	
	01300	23	♀	M	imp. nullip	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
	01240	21	♀	SAD	imp. nullip	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	
	0320	27.5	♂	M	scrotal	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	11.15	
	01220	22	♂	early M	TND (low)	14.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	
	N 01330	11.5	♀	Imm	nullip	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	
	N 01340	19	♂	SAD	TND	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	
	N 01400	20.5	♀	SAD	imp. nullip	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	
<i>N. fuscipes</i>	01110	33	♀	M	lactating / pregnant?	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	10.16	
	N 01340	19	♂	SAD	TND	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	
	N 01340	19	♂	SAD	TND	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	10.11	
	?					5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
	N 01410	12	♂	Imm	TND	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	
<i>P. truei</i>	01200	29	♂	M	scrotal	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	10.15	
	N 04410	19	♂	Early M	TND	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10	

Went to 0200 0200? 0500?  
This was new.

Tail sheath (red) in trap

Originally id as *P. truei*



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.  
GRID MC: Misc. Species

Funaria - 020  
Z. neapolitana - 020

Species	No.	wt.	Sex	Body	Dec	Jan 11 (Pm)	Jan 12 (Am)	Jan 12 (Pm)	Jan 13 (Am)	Jan 13 (Pm)	Jan 14 (Am)	Jan 14 (Pm)	Jan 15 (Am)	Jan 15 (Pm)	Jan 16 (Am)	Comments
Phagnathus	030	26	♂	M												
Z. neapolitana	010	10	♂	M									55			Caught by tail in door, seems OK upon release.
Stellaria				M												

10/15 - Mortality. Head caught in door.





## Journal-Grid Data

GRID MC: *P. californicus* ONLY

*[Handwritten signature]*

Species	No.	wt	Sex	Age	Birdg	Ooc	Feb 16 (Pm)	Feb 17 (Am)	Feb 17 (Pm)	Feb 18 (Am)	Feb 18 (Pm)	Feb 19 (Am)	Feb 19 (Pm)	Feb 20 (Am)	Feb 20 (Pm)	Comments
Psaltriparus	N 170	47	F	M	Adult - hatching Preempt	10, 6			10, 6					11, 5	10	1-Dusked Orange: 47g. 10-Reddusked. Lact in one test no sign of parasite. Returned to lab for tissues
L	N 1186	18	F	Imm	nullip	9, 12										
	V 1128	33	♂	M	TAD	10, 6										
	V 1971	38.5	♂	M	scootal	9, 10				9, 9				9, 7	10, 9	6-Cyren-visible dark eyes. 10, " " Early fled 5-covered w/ flush redd powder 10-25g
	V 1156	27	♂	SAD	TAD	8, 16					9, 14	8, 17		8, 16	8, 15	3-Dusked TAD
	V 1143	52.5	F	M	purgant!			9, 13	9, 12			10, 14				
	V 1129	40.5	♂	M	scootal				9, 18	9, 18	9, 18	10, 18				
	V 1104	42.5	F	M	Purpus pregnant? - probably				9, 10	9, 10	9, 7	9, 7	10, 10	9, 7	9, 9 - 43g	4-Dusked 49g. 8-Reddusked, 210.5g. 5-Covered with fresh Oracles -exposure
	V 1184	31	F	SAD	with nullip					11, 5						
	N 1191	23.7	♂	Imm	TAD									9, 13	9, 13	6-gutted with redd powder. Returned to lab for tissues 9-19.5g



P. BOYLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: P. boylii ONLY

Species	No	wt	Sex	Age	Bdgy	Occ	1	2	3	4	5	6	7	8	9	10	Comments
P. boylii	020	19	♂	SAD	scrotal		9,5	9,5				9,5			9,5	9,5	
✓	04410	20	♂	Early M	scrotal		10,17	10,17	11,18				10,17	10,17	10,17		
	03430	23	♀	M	<del>post-lactating</del> lactating		11,18	11,18	11,18	11,18	10,17	10,17	11,18	11,18			6-lactating
N	02480	17	♀	Early SAD	nullip		8,8	8,8	6,8	1,7		7,7				7,9	
	04240	23	♀	M	post-lact. imp. ovaries		6,12	6,11		6,11	6,12						
N	0300	15	♀	Imm	nullip		5,10	5,10	5,10	5,10	5,10		5,10	5,10		5,8	
	010	23	♀	M	<del>post-lactating</del> lactating		6,8		5,8	5,8							
N	0310	20	♀	SAD	imp. nullip			9,5			9,5						
N	0320	13	♀	Imm	nullip			10,15	9,15	9,14				10,15			
	04320	31.5	♀	M	pregnant			17,16									
	0120	17.5	♂	Early SAD	ovnd			11,18		11,18					11,18	11,18	
	0130	17.5	♂	Early SAD	ovnd			9,18	10,17	10,17					10,17		
	04300	24	♀	M	post-lact. imp. ovaries			6,14	6,14					6,14			
N	0330	23.5	♂	M	scrotal			5,5		5,5							
N	0410	16.5	♂	Early SAD	ovnd					8,10				8,12			
	02310	29.5	♀	M	post-lactating pregnant					8,17		8,17		8,17			
N	0430	18	♂	SAD	ovnd (closed)					6,14		6,14					7-caught during day-
N	01000	14.5	♀	Imm	nullip							10,8	8,8	5,6			
	04140	21.5	♂	M	scrotal							8,11	- Mortality. Cat # 035				
	0200	23.5	♂	M	scrotal							8,13		9,15		9,15	
	03300	23	♂	M	scrotal									6,8			
	04310	22.5	♂	M	scrotal							10,9	10,9	10,9	10,9	10,11	was #04410, id as P. truei. Definite P. boylii



LIBBLE, D.O.  
1988

Journal-GRID Data

Hastings Reservation, Monterey Co., Calif.

GR210 MC: P. truei ONLY

[illegible]



RIBBLE, D.O.  
1989

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: Misc. species

1 - 0320  
P. manic - 0320  
P. megdlo - 040  
P. - 0320

Species	No	WT	Sex	Age	Body	Occ	1	2	3	4	5	6	7	8	9	10	Comments
<i>M. boscopes</i>	1134	175	♂	500	IND												
	11123	180	♀	500	inf, m								11,16				tagged June 26, 1986!
	775	230	♀	M	inf, parous								9,18				
<i>P. purpuratus</i>	0110	24	♂	M	IND			9,17		8,17			8,17	8,17	8,17	8,17	He!
	0300	28	♂	M	scotol								11,5				





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1989

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: P. californicus ONLY

Species	No	wt	Sex	Age	Bldg	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<u>P. californicus</u>	✓ 1128	32	♂	m	TD		10,4										
✓	N 11200	24.5	♀	Imm	Nullip		11,5										1 - returned to lab for tissues
	✓ 1104	42	♀	ul	Lactating (?)		9,10										Radioed Ch #1 Dusted Green
?	✓ 1186	13.5	♀	early sod	Nullip		9,13										
✓	✓ 1184	39.0	♀	post m	pregnant?		9,13	10,18	10,17	10,17	10,18	10,18	10,18	9,17	10,18	9,16	4 - Dusted Golden brown 4 - Radioed 4 covered with red pencil
✓	✓ 1141	42.0	♂	m	scrotal		8,14			9,14	8,14	8,14	9,13				
✓	✓ 1191	32.0	♂	sod	TND		8,13	8,14	8,13	8,14	8,13	8,14		8,14			
	✓ 1199	27.0	♀	Imm	TND			10,6			10,4			11,5			
✓	✓ 1186	31.5	♀	sod	Nullip			10,4			11,5		10,4		10,6		
✓	✓ 1129	40.5	♂	m	scrotal			9,16	9,18	9,17		9,17		9,16	9,17		6 - covered with golden brown pig in cont
✓	✓ 1943	51.0	♀	m	Lactating			9,13	9,13	9,13		9,13	9,14				dusted red 6 - dusted (13/20 cm)
✓	✓ 1023	43.0	♂	m	scrotal				10,4			8,5			11,5		
✓	✓ 1205	27.0	♀	imm	Nullip				8,15					9,17	8,17		3 - returned to lab for tissues
✓	✓ 1206	29.5	♂	sod	TND					8,6							Returned to lab for tissues
✓	✓ 1100	41.0	♂	m	scrotal					9,7							Visible powder
✓	✓ 1111	32.0	♂	m	scrotal					9,13							
✓	✓ 1971	38	♂	m	scrotal						9,6						5 - covered w/ fresh Green Powder
✓	✓ 1156	31.5	♂	late sod	TND						8,14	9,16	9,16	8,17			
✓	✓ 1212	26.0	♂	imm	TND									10,4			



Journal - GRID Data

GRID MC: P. boylii & P. truei (P-2)

[illegible]



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1988

Journal- GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. tui* & misc

Spp	Ab	WT	Sex	Age	Bldg	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. tui</i>	N	01440	17	♂	Imm	TND	10, 7	10, 9				9, 9	9, 9		10, 7		
		0410	23	♂	M	scat	10, 10					10, 8	9, 6		9, 6		
		01220	24	♂	M	scat	11, 15	10, 15	10, 15	10, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	
		01420	24	♀	M	mully/prop	10, 16	9, 15	11, 15	10, 14	11, 15	11, 16	11, 15	11, 15	9, 14		
		01300	30	♀	M	locting, locting post-est.	9, 6	10, 6	10, 7	10, 10	9, 5	10, 16	10, 7	10, 7	9, 6		
		N 02000	16.0	♀	Imm	mully	10, 4					10, 4	10, 4	9, 5			
		N 02010	14.0	♀	Imm	mully	10, 8										wound and right leg
		N 02020	20	♂	M	TND	10, 9	10, 9									slow hatching
		1330	29	♀	M	prop/locting	10, 11	8, 11	10, 11	10, 13	10, 10	10, 11			10, 13		WT = 23 g
		01410	25	♂	M	TND	10, 13					10, 14	10, 13	10, 13			
		01400	24.5	♀	M	locting	11, 15	11, 16							11, 15		
		N 02030	19.0	♀	Scd	mully	10, 4				10, 4						
<i>P. tui</i>		01110	32.0	♀	M	post-est	10, 6										
<i>N. fuscipes</i>		1109					11, 10	9, 18				9, 18					
		775					9, 18								9, 18	9, 18	
		1134					5.8										
<i>N. fuscipes</i>	N	01210	25.0	♂	M	scat						10, 4					previously caught and kept out
<i>P. tui</i>		01230	23.5	♂	M	scat	10, 14	10, 15	10, 15				11, 15	10, 15	10, 14		
		01340	22	♂	M	scat		10, 8				10, 9	10, 10	10, 9	10, 10		
	N	02040	14.0	♀	Imm	mully		10, 10	10, 10				10, 9	10, 10	10, 11		
	N	02100		♂	Imm	TND	11, 16										
<i>Perognathus</i>		0300	31	♂	M	scat	10, 15										
		01110	23.5	♂	M	TND	9, 17		9, 17	8, 17	10, 18				8, 18	10, 18	
		0140	26.5	♂	M	scat				11, 15						10, 4	





RIBBLE, D.D.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: P. boylii ONLY

Sp	Wb	wt	Sex	Age	Bdgs	Dec	1	2	3	4	5	6	7	8	9	10	Comments
P. boylii	01300	30	♀	M	imp lactating	10.7						7.11					10?
	01330	30.5	♀	M	pregnant	10.13						8.16	8.16		3.18		10?
	0130	19.5	♀	M	imp nullip	9.17	9.17	9.17	9.18	8.17							
	03430	24.0	♀	M	parted pregnant?	11.17	11.17	10.17				10.17	10.17	10.17	11.17		
	N 01010	12.0	♂	imm	TND	11.18	11.18		11.18				11.17	11.18			
	N 01020	11.0	♀	imm	null	11.18	11.18		11.18								
	0320	17.0	♀	late sed	imp nullip	8.18	8.18	10.17	10.18						10.17		
	0230	22.0	♂	M	scrotal	8.16	8.16	8.18	8.18					8.18	8.18		
	04320	24.0	♀	M	imp parted	8.15	8.15	10.16						10.16			
	N 01030	20.0	♀	sed	imp nullip	8.11	8.11								7.11		
	N 01040	19.0	♂	M	scrotal	7.9	7.9	8.7	8.7			8.7	8.7	8.8			
	N 01100	14.0	♀	imm	nullip	6.14	6.14										
	0300	28	♀	M	pregn	5.8	5.8	6.9	6.9			5.9	5.9	5.8			
	0240	26	♀	M	imp early pregnant	8.7	8.7	7.7	7.7			8.8	8.7	6.9			
	020	22	♂	sed	scrotal	9.5	9.5										
P. truei	04310	20.5	♂	M	scrotal	10.10	10.10	10.9	10.10	10.10	10.10	10.10	10.9	10.10	10.10		
	N 01110	11.5	♀	imm	nullip	10.15	10.15							11.17	11.17		ID?
	04410	21.5	♂	M	scrotal	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16		mortality wt = 19g
	N 01120	11.5	♂	imm	TND	11.18	11.18						11.16				
	04440	27.0	♀	M	lactating	6.11	6.11					7.13					
	0330	23.5	♀	M	scrotal	5.6	5.6										
	0310	25.0	♀	M	lactating			8.5	8.5				8.5	8.5			
	N 02100	18.0	♂	imm	TND			11.16	11.16			11.16			11.16		
	03420	25.5	♂	M	scrotal			10.18	10.18								

N 1120	19.5	6 tad	9.8
23 10	19.5	9 w	7.18
4	21.2	9 early w	imp/mult 5.5
1000			



Journal-Grid Data

LYRIO MC: P. californicus only,

[illegible]



PIBBLE, DC.  
1989.

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: P. boylei ONLY

02200

Spd	No	wt	Sex	Age	Bldg	Occ	1	2	3	4	5	6	7	8	9	10	Comments
Florklin	01110	18	♀	SAD	hulup		10,15	11,16	11,16		10,15						
	04320	28	♀	M	pregnat		11,16										
	01390	21	♂	M	scrotal		11,17	11,17	11,17								
	03430	28.5	♀	M	perf		11,17	11,17		11,17	11,17	11,17	11,17	11,17	11,18	11,17	
	01110	17	♂	SAD	TND		11,18	11,18									11,18
	N 02020	16.5	♀	Im	hulup		8,12			9,14							
	01004	22	♂	M	scrotal			7,7									
	N 02020	15	♂	Im	TND			7,5		8,5							2 white patches on face.
	N 02030	15	♂	Im	TND			8,5									
	0320	24.5	♀	M	unp perf pnegat			10,18		11,18							
	N 02040	18.5	♀	SAD	unp, hulup			9,16	9,16		8,16	8,16				9,13	
	01000	20	♀	M	unp, Pnrow post last			7,9									
	0230	23	♂	M	scrotal			8,16				7,18					
	04300	29	♀	M	lactating pnegat			10,14				8,14					
	01230	23.5	♀	M	unp Pnrow												
	01210	20	♀	SAD	unp hulup						10,15	11,16	11,16				
	0410	22	♂	M	scrotal					8,12							
	0130	23	♀	M	unp, Pnrow post last					8,17	8,17	8,18					
	02310	40	♀	M	pregnat!					7,18							
	0300	25	♀	M	lactating					6,8					5,8		
	N 02100	20	♂	SAD	TND (close)							9,14					
	N 02110	22	♂	M	TND							8,10			9,10		
	N 02120	24	♂	M	scrotal							5,10				5,10	



ZIBBLE, D.D.  
1988

JOURNAL - GRID DATA

30315

Hastings Reservation, Monterey Co., Calif.

GRID MC- *P. boylii* ONLY (Page 2)

[illegible]







01/06/2014



RIBBLE, DO  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co, Calif.

GRID MC: Misc Sp

Spp.	No	Wt	Sex	Age	Bldg	Vcel	Comments	
<i>N. fuscipes</i>	1189	1100	♂	Early M	scrotal	9,18	9,17	
	N 1229	120	♂	Early S	TND			
	N 1230	135	♂	S	TND	5,9		5.8 5.8
	775	160	♀	M	imp. parous		10,17	10.17
<i>Perognathus</i>	0220	27	♂	M	scrotal			
	0111	27	♂	M	scrotal		8,17 8,18	8.17



ZIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus* (special trapping session)

May 11 (am)  
May 10 (am)  
May 9 (am)

Spp	No	wt	Sex	Age	Body	Dec	1	2	3	4	5	6
<i>P. californicus</i>	1200	40.5	♀	M	inf. prous	Dec	9, 7	9, 7	9, 7			
	1106	44.5	♀	M	pregnat		10, 4	10, 6				
	1212	34	♂	M	TND		11, 5					
	1128	35	♂	M	TND (close)		11, 5	11, 5				
	1071	39	♂	M	scrotal		11, 16	10, 9				
	1104	38	♀	M	multip(?) pup		9, 13	9, 18				
	1129	41	♂	M	scrotal		9, 13	9, 17				
	1218	20.5	♀	Im	nullop		9, 13		9, 13			
N	1271	21.5	♀	Im	multip		9, 13	9, 14	10, 14			
N	1272	20.5	♂	Im	TND		9, 12	9, 13	9, 12			
	1191	36	♂	late SAD	scrotal		9, 7					
	1141	43	♂	M	scrotal			10, 14				
N	1273	21	♂	Im	TND			9, 12	9, 13			
	1111	36	♂	M	scrotal			9, 10	10, 9			
	1023	41.5	♂	M	scrotal			<del>11, 5</del>	11, 5			
	1216	33	♂	early m	TND				9, 18			

pregnat? 2 - Dusted Golden  
Escaped to hole 1.0 m east of station. 2 - Dusted Purple

2 - Dusted Golden Brown

Returned to lab to bleed. Absence of powder (examined in 2 - avg fine)  
" " " " " "

Photo. About to lose a tag

Returned to lab to bleed.



RIBBLE, D.D.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus* ONLY

Spp.	No	Gr	Sex	Age	Budy	Doc	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	1706	34	♂	M	TND	8.5					9.5			8.5			
	1718	28	♀	SN	up, nullip	10.11	8.14	8.14	10.11		9.13	9.13	10.12	9.13			
	1184	38	♀	M	prof, nullip	10.17	10.13	9.18	9.18		9.18		9.18		9.17		
	1723	23	♂	Imm	TND	9.13	9.12	9.13	8.13	9.12	8.13	8.13	8.13				
	1722	24	♂	Imm	TND	7.13	7.12	9.12							10.14	9.13	2=258
	1921	39.5	♂	M	scrotal	9.6					11.15	11.15					
	1186	42	♀	M	Lactating	10.6	10.6	10.5					10.6				2-Dusked Purple 8-wt=58g. RC Ch # 2
	1200	37.5	♀	M	Lactating	10.9	9.14	8.15	9.9	9.9	9.7	9.7	10.9	9.7	9.7		2-Dusked Purple 5-Reddusled 8. RC Ch # 4
	1221	25	♀	Imm	up, nullip	9.14	9.14	8.15	9.14	9.14	9.14	9.14	9.6	8.14	8.14	8.17	
	1111	35.5	♂	M	scrotal	9.9	9.9				9.16	9.16	9.6				3-Covered w/ Green 8-RC, Ch # 7
	1129	41.5	♂	M	scrotal			10.12	10.12		10.17	10.17	10.17				
	1216	33.5	♂	Embr M	TND			9.17	9.17		9.18	9.18					6-Covered w/ Blue-Green Powder.
	1205	40	♀	M	Lactating			9.16	9.16		8.15	8.15	8.17	9.17			4-Dusked Blue-Green 9-Reddusled
	1212	33.5	♂	M	TND				10.6	10.6			10.6				5-Covered w/ Purple Powder Cans on 14
	1141	39.5	♂	M	scrotal				8.13	9.12							
	1128	34	♂	M	scrotal				10.6								6-Covered w/ Purple Powder returned to lab. - P. Ch # 14
	1921	40.5	♂	M	scrotal						11.15	11.15					



PBACLT-DAT

RIBBLE, D.O.  
1988

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. boylii* only

Sp	Ab	WT	Sex	Age	Body	Occ	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. boylii</i>	01240	20	♀	M	unpreg, nullip	11,17	11,17	11,17								11,17	
	01300	23	♂	M	scrotal	11,18				11,18	11,18						
	01110	21.5	♀	M	unpreg, nullip	9,14	10,15					10,15					
	0130	24	♀	M	post-lact	8,17	8,17			8,17	8,16	8,16					
	02340	33.5	♀	M	pregnant	7,18	7,18			7,18	8,18	8,18					
	N 02320	20.5	♀	late	post-lact	6,13	6,14	6,14		6,14							
	03300	25	♂	M	scrotal	7,7				7,9		5,7					
	02030	19.5	♂	early M	TND	8,5	9,5			8,5		7,5					
	02130	18.5	♂	early M	TND	9,5				9,5		9,5					
	01110	19	♂	early M	TND	11,18				11,18		11,18					
	02180	21	♂	M	TND	9,14				9,14		9,14					
	01040	21.5	♂	M	scrotal	8,8	8,8										
	01030	29	♀	M	pregnant	7,7											
	0400	23	♂	M	scrotal	6,11											
	0230	23	♂	M	scrotal	8,18						7,16					
	N 02340	17	♀	late	unpreg, nullip	7,16						8,17					
	02110	21	♂	M	TND (close)	6,14											
	01230	25	♀	M	early preg, up	5,10											
	0300	24	♀	M	unpreg, nullip	6,8											
	01000	21.5	♀	M	aut, post-lact	5,7											
	N 02400	15.5	♂	late	TND	7,16						8,17					
	02140	23	♂	M	TND					9,5							
	N 02430	19	♂	M	TND												
	01240	23	♀	M	unpreg, parous												

Drift fence and

10,9





LIBBLE, D.O.  
1988

Journal - Geo Data

Hastings Reservation, Monterey Co., Calif.

Grp 10 MC: P. truci only

1. A. I. V. L. A.

100

[illegible]



VIBBLE, D.D.  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: Misc. species

[illegible]



LIBBLE, D.O.  
1980

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus* only.

Spp.	Ab	WT	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	1276	40.5	♀	m	imp, null		8,5		8,5		9,6				9,7		1 dusted GOLDEN BROWN 7 - red dusted.
	1184	39.0	♀	m	lactating, pig.		9,17	8,17	9,18	10,17	10,17		11,18				1 missing patch of fur on back
	1218	30.0	♀	SAD	imp, null		9,14			9,12	8,13		9,12				1 dusted GREEN 7 - red dusted GREEN 9 - covered GREEN
	1200	39.0	♀	m	imp, far post lac		9,10	8,7		9,7			9,6		10,9		
	1206	35.5	♂	Early m	TND		8,5	8,5		8,5							
	1971	39	♂	m	Scrotal			10,10	10,10	10,10	10,11		10,9				3-covered w/ golden brown
	1129	41	♂	m	Scrotal		8,17	11,16					8,17				3-dusted BLUE GREEN 5 - see Journal
	1205	34.5	♀	m	imp, parous			9,17			8,17						4 - dusted PURPLE 19 June dusted PURPLE
	1186	40	♀	m	imp, lactating				10,7								
	1128	35	♂	m	Scrotal				10,7								
	1111	30	♂	m	Scrotal				10,9	10,9	9,7	8,5					5-covered with GREEN 8-covered w/ GREEN 10 head to tail.
N	1351	31	♂	SAD	imp, null, p.				10,9	9,10	9,10	9,10	10,11	9,10	8,10		5-covered with Blue Green pawless.
	1216	34.5	♂	m	Scrotal				9,18	8,17							8-covered BLUE GREEN + returned to lab
N	1352	22.0	♂	imr	TND								11,18		11,18		





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: P. boylii ONLY

Sex	No	WT	Sex	Age	Budy	Date	June 13 (Pm)					June 14 (Am)					June 15 (Am)					June 16 (Am)					June 17 (Am)					June 18 (am)					Comments
							1	2	3	4	5	6	7	8	9	10																					
P. boylii	N 03130	14.5	♀	imm	null		7,7		8,7		7,7		8,7																								
	02030	18.5	♂	early m	TND		8,5			9,5																											
	02100	20.0	♂	m	TND		10,15			9,15																											
	01110	20.0	♀	m	imp, null		11,15	10,15	10,15	10,15																											
	01210	20.0	♀	m	imp, parous		11,16	11,16		11,16																											
	01300	22.5	♂	m	scr at al (early)		10,17	10,17		11,17																											
	02440	15.0	♀	imm	null, imp		8,8																														
	01030	21.0	♀	m	post lac imp, par		7,10	7,9	8,11		7,9																										
N	03440	13.0	♀	imm	null		8,18																														
	02310	29.0	♀	m	post lac imp.		7,18		10,18	7,18																											
N	03200	15	♀	SAD	imp, nullip		8,5			8,5																											
N	03310	21.5	♀	M	imp, parous		11,16																														
	01110	19	♂	M	TND		11,17	11,18	11,19	11,19																											
	02340	2.0	♀	SAD	imp, nullip		10,19																														
	0250	22	♂	M	scrotal (early)		10,18	10,18	10,19		7,16																										
	0130	23.5	♀	M	imp, post-lac		8,16	10,17		8,16																											
	0130	23.5	♀	M	parous		8,19																														
N	03210	11	♀	lum	imp, nullip		8,19																														
N	03220	16.5	♂	lum	TND		7,19			7,19																											
N	03230	17.5	♂	M	TND		5,12																														
N	03240	21.0	♀	early m	imp, null		9,14																														
	01040	20.0	♂	m	TND (early)	scrotal	7,9	6,9	6,9																												
N	03320	18.5	♂	early m	TND		9,7																														
N	03330	19.5	♀	early m	imp, null		10,8	10,9																													
N	01000	25	♀	M	imp, parous		7,9	7,9																													

# 0300 from so we used it

10 dead young; 10 of P. f. f. f.

320



Journal-GRID Data

GRID MC: P. boylii only (p.2).

[illegible]

Op 3

~~Op 3~~

ZIBBLE, D.O.  
1988

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. tui* ONLY

PTMC 1 U: DAT

SPP.	Wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	10	Comments
<i>P. tui</i>	02000	♀	M	up, down nest-lack	9/5	9, 5	10, 5	10, 5	9, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	
	02100	♂	M	scrotal	10/5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	
	02230	♂	early M	TND	10/7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	
	04110	♂	M	scrotal	10/7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	10, 7	
	02330	♂	M	TND	10/11	10, 11	10, 11	10, 11	10, 11	10, 11	10, 11	10, 11	10, 11	10, 11	10, 11	
	03000	♀	SAD	up, nullip	10/14	10, 14	10, 14	10, 14	10, 14	10, 14	10, 14	10, 14	10, 14	10, 14	10, 14	
	04310	♂	M	scrotal (early)	11/15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	
	02300	♂	M	scrotal	10/15	10, 15	10, 15	10, 15	10, 15	10, 15	10, 15	10, 15	10, 15	10, 15	10, 15	
	03330															
	02420	♂	SAD	TND	11/15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	11, 15	
N	03330	♀	Early M, up, nullip		10/5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	10, 5	
N	03000	♀	Early M, up, nullip		10/6	10, 6	10, 6	10, 6	10, 6	10, 6	10, 6	10, 6	10, 6	10, 6	10, 6	
N	03000	♀	SAD up, nullip													

first id as *P. boylii*

PTMC 1 U: DAT

P. bonjii	2010	♀	M	wp, nullip	<u>4</u>	Exposed.
	2110	♂	M	scrotal	8,12	
	01230	♀	M	wp, post-lact	8,14	
					§ 10	

Journal - 6.210 Data

GRID MC: Miscellaneous spp.

[illegible]

10.5

STEINBERG, E.K.

1988

## JOURNAL

Hastings Reservation, Monterey Co., Calif

GRID MC - Eastern drift fence → GRID (≈50 meters)

	St	Spp	No	Wt	Sex	Age	Brdg
June 20	① E-10m	P. boylii	<sup>new</sup> 04010	17.5	♂	SAD	TND
	E-50m	P. boylii	023/410	32.5	♀	m	pregnant
June 21	① E-30m	P. boylii	<sup>new</sup> 04020	17.0	♀	SAD	imp, null
	E-40m	P. californicus	1216	34.5	♂	m	scrotal
	E-50m	P. boylii	021/410	RECAP			
June 22	E-10m	P. boylii	<sup>3310</sup> <del>04010</del>	23.5	♀	m	imp, par
	E-20m	P. californicus	1352	24.5	♂	imm	TND
	E-30m	P. boylii	03440	16.5	♂	imm	TND
	E-50m	P. boylii	03220	18.0	♂	SAD	TND
	E-50m	P. californicus	1184	40.0	♀	m	postlar, imp
June 23	① E-30m	P. boylii	<sup>new</sup> 04100	11.5	♀	imm	null, imp
	E-40m	P. californicus	1216	Recap			
	E-50m	P. californicus	1184	Recap			





Steinberg, Elk  
1989

JOURNAL - MC GRID  
spot checks

Hastings Reservation, Monterey Co., Calif.

GKID MC: P. californicus only

July 10  
July 9  
July 8  
July 7

Comments

Occ 1 2 3 4

Age Bdy

Sex

Wt

NO

P. californicus



scrotal

early m  
scrotal (dorsal)

SAD

SAD imp, n-llip

scrotal

iam

imp, post lat

scrotal

imp. par.

scrotal

early m  
imp. par.

early m  
imp, nullip

SAD imp, nullip

\* TRAPS PLACED AT (8,5), (8,6), (8,7), (9,5), (9,6), (9,7), (9,10), (9,12), (9,17), (9,18), (10,7), (10,8), (10,9), (10,10), (10,11), (10,17), (8,17).



JOURNAL - MC GRID  
spot checks

GKID MC : P. boylii, P. tnei, N. fuscipes

Spp	No	Wt	Sex	Age	Body	occ	1	2	3	4	Comment
<u>P. boylii</u> ↓	02210	17	♀	imm	imp, belly	8,7	8,7	8,7		8,7	
	02200	19	♂	m	TND	8,5					
	04110	15	♀	imm	imp, belly	9,10	9,10	9,10			
	01300	23	♂	m	TND (close)	10,17	10,17				
	02030	18	♂	SAD	TND	8,5	8,5	8,5			
	02420	16	♂	imm	TND	10,11	10,11	10,11			
	03010	14,5	♀	imm	imp, belly	8,17	10,17	8,17			tail bobbed
	02140	22,5	♂	m	scrotal	8,17	8,5				
	0230	23	♂	m	scrotal	8,17	8,17				
	03410	17	♂	SAD	TND	10,10	10,9	10,9			
<u>P. trivii</u> ↓	02320	22	♂	m	TND	10,11					
	02230	20	♂	M	scrotal	10,8	10,8	10,8			
	04310	23	♂	M	scrotal	10,9	10,9				
<u>N. fusciipes</u> ↓	1376	135	♂	SAD	TND	9,5	9,6	9,5	9,5	9,5	
	1358	155	♂	SAD	TND	9,5	9,5	9,5	9,5	9,5	
	1348	110	♀	imm	imp, belly				9,18		



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1988

# JOURNAL

Hastings Reservation, Monterey Co., Calif

GRID MC - western drift fence → GRID (250 meters)

	St	SPP	No	Wt	Sex	Age	Brdg
June 20	W-40m	P. boylii	0330	22.0	♂	m	Scrotal
	W-40m	P. boylii	01200	24.0	♀	m	postlac, ing
	W-50m	P. boylii	02030	19.5	♂	m	TND
June 21	② W-10m	P. boylii	<sup>new</sup> 04030	22.0	♀	m	post lac, ing
	W-40m	P. boylii	0330	RECAP			
	W-40m	P. boylii	01200	RECAP			
June 22	W-40m	P. boylii	01200	RECAP			
	W-10m	P. boylii	02310	21.0	♂	early m	TND
June 23	W-10m	P. boylii	0400	19.0	♂	m	TND
	② W-40m	N. fuscipes	<sup>new</sup> 1358	125.0	♂	imm	TND
	W-50m	P. boylii	01200	RECAP			
	W-50m	P. boylii	02030	RECAP			



RIBBLE, D.D.  
1989

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus* ONLY

	No	WT	Sex	Age	Budg	Dec 1	2	3	4	5	6	7	8	9	Comments
<i>P. californicus</i>	1363	22	♂	SAD	TND	9,6				8,10					1-dusted PURPLE
	1186	35.5	♀	m	imp, par	10,6				10,6					
	1111	32.5	♂	m	scrotal (barely)	10,9	9,7	9,6							
	1971	40	♂	m	scrotal	10,14	10,14			10,14	9,12				
	1218	28.5	♀	late SAD	imp, nullip	10,14	9,14	8,14	9,13	9,13					
	1129	40	♂	m	scrotal	10,15	10,15	11,15	8,17	9,15					1-dusted GOLDEN BROWN
	1184	35	♀	m	imp, par	9,17				9,17	9,17				1 - reference to uti for tissues covered w/ GOLDEN BROWN
	1379	20.5	♀	imm	nullip, imp	9,17	9,18	11,16	9,18	10,18					
	1351	33	♀	SAD	perforated nullip	9,13	8,13	9,13	9,12	10,11					
	1216	32.5	♂	m	TND	9,14	8,17								2 - Dusted Blue-green.
	1205	34	♀	late SAD	imp (anally), parous		8,17	8,17	8,17						
	1246	31.5	♂	m	TND		8,17								
	1200	35	♀	m	imp, parous			9,7	9,7						3 - Dusted GREEN
	1129	35	♂	m	TND			10,6							
	1352	26	♂	SAD	TND			8,14							
N	1391	32	♀	early m	imp, nullip.				9,6						4 - returned to lab for tissues
	1212	35	♂	m	scrotal				10,6						4 Purple powder visible everywhere





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. boylii* (p 2)

July 15  
July 14  
July 13  
July 12 (Sun)

Sex	No	wt	Sex	Age	Body	Occ	1	2	3	4	5	6	7	8	9	Comments
<i>P. boylii</i>	63230	19	♂	M	TND		10, 10	9, 10	9, 10	9, 10						
↓	01210	21.5	♀	early M	imp, nullip		11, 16	11, 17			11, 15					
	01300	22	♂	M	TND		10, 17	10, 17	10, 17	10, 17	11, 16					tail slightly broken; turned around
	02340	27	♀	M	imp, post-lact		10, 17	10, 17	10, 17	10, 17	10, 17					
	01040	20	♂	M	TND (close)		7, 9	7, 9	7, 9	7, 9	5, 8					
	01000	22	♀	M	imp, parous		7, 9	7, 10								
	0410	22	♂	M	TND		8, 12	8, 12								2-8, 12
	0130	23	♀	M	imp, parous		7, 16									
	0730	21	♂	M	TND (close)		7, 16			10, 18	10, 17					
②	04240	19	♀	M	imp, parous		6, 14	6, 14	6, 14	6, 14						
	0300	25	♀	M	Lactating		6, 8			6, 8						
	01240	21.5	♀	M	imp, parous			10, 10	9, 10	9, 10						
	02440	17	♀	SAD	imp, nullip.			9, 8	9, 8							
②	04300	18	♀	early M	imp, nullip			8, 12	7, 12							
①	04310	18	♀	early M	imp, nullip			5, 12								
	02440	21.5	♂	M	TND				9, 5							
	04340	24	♂	M	TND				10, 10							
	02100	21	♂	M	TND				10, 14	10, 14						
②	04330	15.5	♂	early M	TND				11, 10							
	03220	19	♂	early M	TND				9, 10	9, 10						4-9, 10
	01030	21.5	♀	early M	TND				8, 11							4-8, 11
	03240	21	♀	M	imp, parous				8, 12							
	01230	22	♀	M	imp, parous				5, 10							
②	04400	21	♂	M	TND						11, 10					(see P. hui page)



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1988

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. boylii* ONLY

Sp	No	wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	Comments
<i>P. boylii</i>	02030	18	♂	m	TND	8,5				9,5						
	03440	18	♂	early SAD	TND	10,10	9,10			10,9						03440?
	04420	19	♂	m	TND	10,12			9,13	10,11	10,11					
	03210	13.5	♀	SAD	imp, nullip	10,17			7,16		7,16					
	02240	18.5	♂	m	TND	11,18	11,18		11,19							
	01110	20	♂	m	TND	11,18	11,18		11,18	11,17						
	04130	17	♀	SAD	imp, nullip	9,12	9,12									
	04110	16	♂	early SAD	TND	8,11	9,9		9,10	8,10						
	04140	19.5	♂	SAD	TND	7,11										
	04200	16	♀	SAD	imp, nullip	8,12					7,13					
	02320	19.5	♀	m	imp, per	7,13	6,14		6,14	5,14	6,14					
	02110	22	♂	m	TND	8,15	8,15		8,15		8,15					
	04000	15	♀	SAD	imp, nullip	8,16										
	0220	23	♂	m	scrotal (body)	7,16										
	03140	16.5	♀	early m	imp, nullip	8,17										
	04100	14.5	♀	imm	imp, nullip	7,18	7,18		7,18	7,18	7,18					
	0430	21	♂	m	scrotal	6,14			7,10	7,10	8,12					
	04220	14	♀	imm	nullip, imp	6,11	7,10									
	03420	15.5	♂	SAD	TND	6,9	10,11		6,9	6,9						
	0330	21.5	♂	m	scrotal (body)	5,5			5,5	5,5	5,5					
	04230	11	♀	imm	nullip, imp		6,6		5,5							
	03130	17	♀	embryo m	imp, nullip	8,7	8,7		7,7	7,7	8,7					
	02410	20	♀	early m	imp, nullip	9,5	9,5		9,5	8,12	9,5					

10  
2

LIBBLE, D.O.  
1988

Journal - GRID Data

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. truei* only

PTMC IV - DAT

SPP	No	WT	Sex	Age	Bldg	Dec	1	2	3	4	5	6	7	8	9	Comments
<i>P. truei</i>	02330	22	♂	m	TWP	10	10	10, 12	10, 12	10, 10	10, 13					2-21g.
	02000	22	♀	M	unp, paws	10	10, 5	10, 5								
	0410	23	♂	M	Scrotal		10, 7									
	02230	20	♂	M	rad (close)		16, 7	10, 8								
	03000	19	♀	m	unp, nullip.		11, 15	11, 5	11, 15	10, 14						
	02020	21	♀	m	unp, nullip		10, 7	10, 7	10, 10							
	N 03110	11	♂	juv	TWP											
	N 03020	25	♀	m	unp, paws (preg?)		10, 7									

<i>P. boylii</i>	04140	22	♀	m	unp, lactating						8, 12					
	01200	22.5	♀	M	lactating						10, 10					
	01310	19	♀	M	lactating						5, 12					



PIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: Misc Species

NEK IV. DAT

July 15  
July 14  
July 13  
July 12 (Am)  
July 11 (Am)

Sp.	No	wt	Sex	Age	Bridg	Dec 1	2	3	4	5	6	7	8	9	Comments
<i>N. bisulcus</i>	1376	120	♂	early SAD	TND	10, 5									
	1274	150	♂	SAD	TND	5, 10	5, 9	5, 9							
	1230	195	♂	m	TND	5, 8									
	1350	220	♂	m	TND		8, 5								
	1213	225	♂	m	scrotal				9, 10						

<i>Perognathus</i>	01100	16	♀	imm	mullip	6, 6									
	(N) 01010	16	♀	imm	mullip	9, 18				10, 18					
	0440	16.5	♂	SAD	TND	8, 15		10, 18							
	N 01020	25	♂	m	TND	<del>8, 10</del>	10, 11	10, 11	10, 11						
	01110	25	♂	m	scrotal		10, 10								family 01100-2. 01800?
	N 01030	17	♀	SAD	up, mullip			10, 14							3-10, 14
	0330	24.5	♂	SAD	scrotal					10, 15					loosing





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1989

Journal - GRID Data

Hastings Reservation, Monterey Co., Calif

GRID M.C.: *Peromyscus californicus* only

Spp	No	wt	Sex	Age	Brdg	Occ	1	2	3	4	5	6	7	Comments
<i>P. californicus</i>	1200	46.5	♀	M	pregnant	✓	9,7	9,10						1-tail collected. Dusked to near 5-4 log. Reducted to 10-3 log. - 3 log. - 3 log. - 3 log.
↓	1351	35	♀	M	up, nullip	✓	10,11	9,12						1-tail coll
	1971	39	♂	M	scrotal	✓	10,12							1-tail coll
	1129	39.5	♂	M	scrotal (baldy)	✓	9,17							1-tail coll
	1184	37	♀	M	up, pregnant	✓	9,17	9,17	9,17	9,17	9,17	9,17	9,17	1-tail coll
	1303	35	♂	Early M	TD	✓	9,5							2-tail coll. Forged to verify info
(DIO)	1111	38.2	♂	M	scrotal	✓	9,9	9,10	10,9					2-tail coll. Green. Viable or back - 10-11 DIO needs a 10-11 clip 3-green body viable!

Ways 0.5  
10/10  
10/15  
11/16

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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: P. boylii only

SPP.	No	wt	Sex	Age	Bdgs	Occ	1	2	3	4	5	6	7	Comments
<u>P. boylii</u>	01200	25	♀	M	up, param	8,5								
	02030	21	♂	M	scrotal	8,5				9,5	9,5		9,5	
	0120	22.5	♀	M	up, param	11,15				11,15	11,16	11,16	11,16	
	01110	22.5	♀	M	up, param	11,15								
	01300	22	♂	M	scrotal	11,16								
	0130	21.5	♀	M	up, param	10,17				9,17	10,17	10,17	9,17	
	02230	22	♂	M	scrotal	11,18							10,17	
	02240	20	♂	M	TRD	10,18								
	0110	22.5	♂	M	TRD	10,18								
	04120	23	♂	M	TRD	9,12	6,12			10,12	8,14		8,12	
	03430	22	♂	M	TRD	9,10					10,9	9,10		
	03130	18.5	♀	M	up, param	8,8	8,5			9,8	9,8			
	01000	22.5	♀	M	up, param	7,9	5,9			5,8	7,9		7,9	
	04220	18	♀	SAD	up, nullip	6,12	6,12			6,11				
	03140	22.0	♀	M	up, param	8,17					9,10		9,10	
(1)	041	13.5	♀	SAD	up, nullip	6,13							5,14	
	0430	21.5	♂	M	scrotal	6,14								
	01230	23	♀	M	up, param	5,9	6,9			6,9	5,10		5,10	
	01040	20.5	♂	M	TRD	5,8	5,7	8,9		7,9	8,9		8,9	
(1)	0101	19	♀	M	up, nullip	5,5	5,5			5,5			5,5	
	043410	23.5	♂	M	TRD (close)		10,12	11,15	10,11	10,14			11,15	
	02100	23.5	♂	M	scrotal		10,14						10,14	
	04300	20.5	♀	SAD	up, nullip		6,14			6,14	6,14			
	01000	20.5	♀	M	up, param		5,8			5,8	7,9		7,9	



RUBBLE, D.O.  
1989

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: P. truei

[illegible]



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: Misc. species

SPP	No	wt	Sex	Age	Bridge	Occ	1	2	3	4	5	6	7	Comments
<i>Perognathus</i>	0420	21	♀	M	up, parous	6, 5							6, 5	
	0330	20.5	♂	M	TD	10, 11								
	01030	23	♀	M	up, parous	11, 10		11, 17	11, 10	11, 10	11, 10	11, 10	11, 10	
	010	20	♀	M	up, parous	9, 10								
	01230	24	♂	M	TD	7, 8				9, 10	8, 9	9, 9		
	01040	24.5	♂	M	TD	8, 9				<del>9, 10</del>	<del>8, 9</del>	<del>9, 10</del>	9, 17	
	01010	20	♀	M	up, parous			8, 16						
<i>N. virgatus</i>	175	220	♀	M	up, parous	11, 16								old animal?
	1274	160	♂	M	TD	5, 9								
	1349	150	♀	SAD	up, nullip						9, 10			





RUBBLE, D.O.  
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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID MC: *P. californicus*

Spp.	No	WT	Sex	Age	Bdgs	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	1111	40	♂	IM	scrotal	10,10					9,12		9,7			PTC # 010
♂	1164	35	♀	IM	impl. (ovary) present	9,13		9,13	9,12	Mortality; only 5 survived left. Apparently caught in trap den and Poskren. Tagged Feb 88						
1040	1303	36.5	♂	IM	scrotal	9,17		9,17	10,12	10,17	10,17	9,17	9,17			PTC 040
	1351	34	♀	early IM	ovula crusty up, nullip		10,9		9,10		10,14		9,12			4-trad # 030. Coll tail tip.
	1212	37	♂	IM	scrotal				10,6							5-trad # 020. Coll tail tip.
1020	1186	42	♀	IM	early ovary? up, present					10,6		10,6				



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: *P. boylii*

New - D111

Spp	No	wt	Sex	Age	Body	Dec 1	Oct 29 (Am)	Oct 30 (Am)	Oct 31 (Am)	Nov 1 (Am)	Nov 1 (Pm)	Nov 2 (Am)	Nov 2 (Pm)	Nov 3 (Am)	9	10	Comments
<i>P. boylii</i>	02030	21	♂	m	scrotal	9,5											
↓	03030	19	♀	Embry	up, nullip	8,8											
	04220	19	♀	E. adult	up, nullip	8,12			9,12	9,12			9,13				
	03140	21.5	♀	m	up, parous	8,17	8,17	8,17	8,17	7,16							
	02230	23?	♂	m	scrotal	8,17											
	01040	21	♂	m	scrotal	5,12				5,9							
	01000	20	♀	m	perf. parous	6,8			6,9			6,6	6,8	5,8			
	04330	19	♂	m	YND			11,18									
	03130	17.5	♀	m	up, nullip				6,8		7,7						
	02100	23	♂	m	scrotal					10,14	10,14						
	04230	23	♀	m	up, parous (wide)					5,9	6,12	5,9	5,9	5,9			
	04310	21.5	♀	m	up (close), nullip						5,12						
	04230	18.5	♀	m	up, nullip							9,13					
	03430	22	♂	m	scrotal								7,7				







JOURNAL-GRID DATA

GRIDING: Misc Sp.

SPR	No	WT	Sex	Age	Birdy	Dec 1	2	3	4
<u>Procyonotus</u>	0230	2.2	♂	m	tail	4, 6	-	7, 7	7, 7
↓ (N)	01320	20.5	♀	M	up, parous parquet?	10, 12			10, 11
	01040	24	♂	m	TND	11, 18			8, 10
	01010	14.5	♀	M	up, nullip?	8, 18			
(N)	02000	20.5	♂	m	TND	6, 12	6, 12	6, 12	8, 18 molt
			♀		up, parous				
(N)	01330	24.5	♂	m	TND				
<u>A. bischofi</u>	1349	10.5	♀	2M	up, nullip	11, 18			9, 18
N	1442	21.2	♂	m	TND				
N	1443	17.0	♀	m	up, nullip				





RIBBLE, D.O.  
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JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: *P. californicus* only

SPP	NO	WT	SEX	AGE	BUDG	DEC	1	2	3	4	5	6	7	8	Comments
<i>P. californicus</i>	1111	310.5	♂	M	SEMI-AD.	10,11			10,9			9,13			
↓	1040	310.5	♂	M	SEMI-AD. (BAND 4)	9,18			9,19	8,17		9,17			4-30.5g - stomach full
	1351	35	♀	M	IMP. MULLUP			9,12		9,10					4-dusked <del>9,10</del> . PURPLE
	020	42.5	♀	M	IMP. LACTATING					10,6	10,10				WAS #1810 5 redressed.

10,5-2

6,6-1

7,6-2  
8,6-2  
8,7-1

7,11-1 } *square?*  
7,12-2 }

10,16-1  
9,18-1

8,9-1

14  
5 9,14-1  
5 9,13-1  
5-11-1

VIBBLE, D.O.  
1988

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif

Gzido MC: P. tucii i Perognathus

Spp.	No	wt	Sex	Age	Budy	Nov 19 (Am)	Nov 20 (Am)	Nov 21 (Am)	Nov 22 (Am)	Nov 22 (Pm)	Nov 23 (Am)	Comments
<i>P. trivir</i>	02140	18	♀	SAD	up, nullip	10, 9						
✓	04340	24	♂	m	scrub	10, 14	9, 13	10, 11	10, 14		10, 11	
	02110	24	♂	m	TND		10, 5	10, 5				
	03110	24.5	♂	m	TND		10, 7	10, 10				
	03140	16	♀	SAD	up, nullip		10, 11	9, 10	10, 10	10, 11	10, 11	2 - should have wester 4 - 1000 # 04000 naturally - 03/140
	04140	24.5	♂	m	TND					10, 7		
<i>Perognathus</i>	0130	22.5	♂	m	TND	7, 8	7, 9					
	01040	23.5	♂	m	TND	8, 17	8, 17	8, 17	8, 17		8, 17	



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID MC: *P. boylii* only

SPP	No	wt	Sex	Age	Buclg	Dec 1	Nov 20 (Am)	Nov 22 (Am)	Nov 22 (Am)	Nov 22 (Am)	Nov 23 (Am)	Comments
<i>P. boylii</i>	0208	21	♂	M	GRID	9.5	9.5	9.5	9.5			
L	0210	24	♀	M	up, param	11.18	11.16	11.16	11.16	11.15		(GRID)
	04220	19	♀	M	up, nullip	9.12	10.12	9.12	9.12	9.12		
	03130	20	♀	M	up, nullip	9.10	9.8	5.9				
	01230	24	♀	M	up, nullip	5.10						
	01000	22	♀	M	up, param	5.8	5.6			5.9		
	0230	22	♂	M	scat		10.17			11.18		
	03140	20.5	♀	M	up, param		8.17					
	01040	22	♀	M	scat		5.9	9.9	9.9	9.9	9.9	

—

Journal-GRID Data

Center of Activity

 $5.166, 135$ 

10.5

5:25, 6:25

5.5, 135

5,6

151

41.

Hastings Reservation, Monterey Co., Calif

GRID 11C: P. californicus only

SPP	No	WT	Sex	Age	Bldg	Dec 1	2	3	4	5	6	7	8	9	10	Comments
<i>P. californicus</i>	040	39	♂	IM	serotol	✓	10, 17	9, 10	9, 17		9, 10		9, 10	9, 17		9 - Covered w/ GREEN (eyes, mouth)
↓	020	43.5	♀	IM	lactating (2 pups?)	✓	10, 16							11, 6		2 - Dusted PURPLE 9 - Redusted Purple
	1351	42.5	♀	IM	lactating	✓	10, 9		9, 12		9, 10			9, 10		2 - Dusted ORANGE 6 - redusted
	0400	35	♀	IM	unsp. nullip	✓							10, 13	9, 10		caught near drift fence - dead 8 - Dusted GREEN
(010)	1111	30	♂	IM	serotol	✓								9, 10		9 - Covered w/ ORANGE (eyes)
	1200	39.5	♂	IM	serotol	✓								8, 5		9 - no sign of powder
(1240?)	000	42.5	♀	IM	pregnant?	✓								8, 5		9 - Dusted ORANGE. not but important. transverse collected. 11 - like tail tip - band of white at end, w/ brown at posterior of tail
																Escaped ~ 10 m west of 9.5

2/11/12  
David



RIBBLE, D.O.  
1988

Journal - Grid Data

Hastings Reservation, Monterey Co., Calif

Grid MC: *P. boylii* only

Spp	No	WT	Sex	Age	Brdg	Dec										Comments
						1	2	3	4	5	6	7	8	9	10	
<i>P. boylii</i>	02030	20.5	♂	m	TND (claw)	9, 10	9, 5		9, 5		8, 5					
↓	01210	22.5	♀	m	up, nullip	11, 10	11, 10		11, 10							
	04220	19.0	♀	m	up, nullip	9, 12	10, 12				8, 14		8, 16			
	01040	20	♂	m	TND (claw)	9, 9			9, 9					5, 12		
	01030	22.5	♀	m	up, nullip	10, 12										
	04310	23.5	♀	m	lactating	5, 12			5, 12							
	01000	22.5	♀	m	lactating	5, 8			5, 9		10, 9					
	0230	24	♂	m	scrotal		10, 17		10, 17		10, 17					
	02100	22	♂	m	scrotal				10, 14					10, 11		
(P)	0111	19	♂	SD	TND				11, 15							
	04300	23	♀	m	post-lact.				10, 14							
	01230	22.5	♀	m	up, nullip.				5, 10				6, 12			
	0330	19.5	♀	m	up, nullip				10, 9				9, 10			
	01200	21.0	♀	m	pregnant lactating				5, 5	5, 5			5, 5			
	03140	22	♀	m	up, parous								8, 17			
	0330	23.5	♂	m	scrotal								5, 5			8-5.5



Journal-GRID DATA

GRID 100: Misc Species

[illegible]



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1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID W2: *P. californicus* only

PCWRID.DAT

Spp	No	wt	Sex	Age	Bldg	Dec	2	3	4	5	Comments
<i>P. californicus</i>	1957	47.0	♀	w	egg	16.14	15.12	15.12	15.12	15.12	
↓	1175	39.5	♀	w	unclp	8.5	8.5				
	1164	45.5	♀	w	partclp	8.5	10.6			11.9	
1240 N	1177	44.0	♀	w	egg	4.3	1.2	4.3	3.3		white tail tip
	1197	42.0	♀	w	partclp	3.1	4.3	6.4	6.4	6.5	
	1113	38.0	♂	m	partclp		16.15			16.14	
	1125	47.0	♀	w	egg	16.14			16.14	16.15	
N	1241	25.5	♂	immature	partclp	11.9	10.8				white tail tip
	1122	43.0	♀	w	partclp	3.3	1.2	1.3			
	1118	40.5	♂	w	partclp	4.3				6.4	
N	1242	25.5	♂	early	TND	1.2	1.3	1.2	1.2	1.2	
	1958	34.0	♂	w	TND		15.12	15.12	15.12	15.12	
N	1249	35.0	♀	late	partclp					13.10	
N	1251	24.5	♂	imm	TND					11.9	
	1116	41.0	♂	w	TND					2.5	
	1127	34.0	♂	m	TND					3.2	



ZIBBIS, D.O.  
1988

Journal - GRID Data

Hastings Reservation, Monterey Co., Calif.

GRID WR: P. truei only

PT WR 10, DAT

New-e 1220

Sp	Ab	wt	Sex	Age	Budg	Dec	1	2	3	4	5	Comments
P. truei	0220	22.0	♀	u	perf	15.12	16.12					
	N 01020	22.0	♂	u	TND	10.8	10.8	8.8	9.7	10.8		
	01020	27.0	♂	u	scrotal	10.7		9.7	10.7	10.7		
	0310	19.0	♀	u	percut	7.5	8.5	10.6			8.5	
	0430	32.0	♀	u	imm	6.6						
	N 01030	22.0	♂	SAD	TND	5.3	4.4				5.5	
	0210	24.0	♀	u	scrotal	4.2	3.2	3.2	3.2	4.2		
	040	22.0	♂	u	TND		15.15					
	0440	25.0	♀	u	imm		15.12				16.14	
	0320	23.0	♂	u	TND		12.12	13.12			13.12	
	N 01040	15.0	imm	imm	TND		9.10					
	N 01100	23.0	♀	u	imm		9.10		10.10	9.10		
	N 01110	22.5	♂	u	scrotal		10.6	8.5				
	N 01120	17.0	♂	u	TND		1.3					
	01140	27.0	♂	u	TND		4.2					
	N 01170	28.0	♀	u	imm		15.15					
	N 01140	18.0	♀	imm	imm		9.10	9.9				
	N 01200	16.0	♂	imm	TND		10.6				10.6	
	0130	23.0	♂	u	scrotal		6.6	6.6	9.7			
	0200	27.0	♀	u	imm		4.2	3.2	3.2			
	N 01210	15.0	♀	imm	imm			11.10	12.10			
	01000	21.0	♂	u	scrotal			10.9				
	0230	26.0	♂	u	TND			10.10				
	0300	23.0	♂	SAD	TND					9.10		





RIZBLE, D.O  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR. P. bayli. s' mise

PBWRID.DAT  
PGWRID.DAT

Ubayli - 0410

Perognathus - 0220

April 28  
April 27  
April 26  
April 25  
April 24

Comments

Occ 1 2 3 4 5

Sp. Ab. Wt. Sex. Age. Body. P. bayli.

0140 24.0 ♀ W. early perognathus

0320 28.0 ♂ W. subad. early w. well

N 0330 16.0 ♀ W. early w. well

0240 23.0 ♀ W. early perognathus

N 0340 17.0 ♀ SAT. w. wellip

0210 22.0 ♀ W. early perognathus

N 0400 24.0 ♀ W. early perognathus

0100 26.0 ♂ W. subad.

P. bayli.

0120 28.0 ♀ W. early perognathus

Perognathus

020 24.0 ♀ W. early perognathus

0110 22.0 ♀ W. early perognathus

0130 23.5 ♀ W. early w. wellip

N 0200 26.0 ♂ W. TNO

N 0210 21.0 ♂ W. TNO

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

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0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus

0210 23.5 ♀ W. early perognathus



PIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: N. fuscipes

NEW RID. PAT

Species	ab	wt	Sex	Age	Body	Dec 1	2	3	4	5	Comments
<u>N. fuscipes</u>	1198	220.0	♀	W	looking	14.13		11.13	11.13		
N	1238	220.0	♀	W	looking	11.8	11.8	11.8	11.8	11.8	
	1177	338.0	♀	W	sweated	1.1		1.1		1.1	
	1115	205	♀	W	partur		8.7	7.7	7.7	7.7	
		95	♀	imm	nullip.		<del>7.4</del>				collected by H. Soloway for F. Cat & P. (Sibling Lab - Tiburon)
	1126	210	♂	W	sweated		3.2				
N	1244	330	♂	W	sweated			11.13	11.13		
	1176	260	♀	W	partur			13.10	13.10	13.10	
N	1245	170	♀	W	part. perous			14.10	14.10	12.10	
	1177	310	♂	W	sweated			11.8			
N	1246	380	♀	W	sweated			7.7			
	1196	270	♂	W	sweated				9.10		
	1248	180	♀	W	trip perous				5.6		
	1162	250	♂	W	sweated					14.12	
N	1252	37.5	♀	imm	imm nullip					7.7	
	cat# 860	41.0	♂	imm	5AD					7.7	
N	1253	105	♀	imm	nullip					5.3	
N	1254	220	♀	W	looking					1.2	



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: *P. californicus* BNLL4

Species	No	Wt	Sex	Age	Body	Dec	1	2	3	4	5	Comments
<i>P. californicus</i>	New 1325	26.5	♂	late Imm	TND	16,15			16,15	16,15		3-tissues collected
	New 1320	29.5	♀	SAD	Imp, null	15,12				8,5		5-tissues collected
	1249	36.0	♀	m	perf, null	7,6	6,6	8,5				
	1118	41.0	♂	m	scratal	6,6	6,5	6,6				
	1197	38.0	♀	m	imp, null	5,5	6,4				6,4	
	New 1326	28.0	♀	SAD	imp, null	4,3	7,6	9,10	9,10	6,6		2-tissues collected
	New 1328	37.5	♂	m	scratal		16,14	16,15	16,15			2-tissues collected
	1957	44.0	♀	m	lactating		14,12	16,14	15,12			
	1958	34.5	♂	m	scratal		13,12			16,14		
	1164	44.0	♀	m	pregnant, null?		10,7	8,4		10,6		
	1116	43	♂	m	scratal			7,6	6,5			
	New 1334	27.5	♂	SAD	TND			6,6		10,10		tissues collected
	1240	36.5	♀	m	Ref > previous nullip para		1,3	4,3				tissues collected - Caught by tail in door
	N 1339	28	♀	SAD	imp, nullip				14,10			6-tail caught in door
	1121	36.5	♂	m	TND (close)				7,5	7,5		
	1175	38.5	♀	m	imp nullip					6,4		
	1242	26	♂	SAD	TND				2,3	2,3		
	N 1346	24.5	♀	Imm	nullip					5,4		5-tissues coll.
	D10	40.5	♀	m	imp para					3,2		Animal previously ear-tagged: <del>to</del> #2 #010. Dark tail tip, not test.
												Probably #1122, see previous trap session



Journal - Grid Data

GRID WR: D. hui

Spp	No	Wt	Sex	Age	Body	Dec	1	2	3	4	5	Comments
<i>P. trivis</i>	01130	25.5	♀	m	post lac, imp	15,15	15,15			15,15		
	01200	28.5	♀	m	post lac, pregnant	11,13			13,12			
	N 01220	16.5	♂	imm	TND	15,11						
	0230	19.0	♂	m	scrotal	14,11	14,11					
	N 01230	20.5	♀	SAD	Imp, null	13,10				12,10		
	01020	22.5	♂	m	TND (close)	10,10	10,10	10,10				
	0310	25.0	♀	m	Imp, perovs	10,7						
	N 01240	15.0	♀	imm	Imp, null	9,10						
	0430	32.0	♀	m	pregnant, imp.	7,6	6,6	7,7	4,12			
	0130	23.5	♂	m	TND	6,6			7,7	8,7		
	N 01300	21.5	♂	m	TND (close)	6,4				7,6		
	0140	27.0	♂	m	scrotal	2,1						
	1030	23.5	♂	imm	TND		4,3	4,3				
	0210	22.0	♂	m	scrotal		3,2	3,1	3,1			
	0330	18.5	♂	m	scrotal				12,11			
	N 01310		♂	late imm	TND				12,10			need wt.
	01100	25	♀	m	post-lactating imp.				10,10	9,10		
	0300	23	♂	m	scrotal				9,10	10,10		
	N 01370	15.5	♂	imm	TND				8,7		8,7	
	01430		♀						16,12			thought this was 0430, obviously not
	N 01330	17	♂	imm	TND				6,6			
	N 01340	17	♀	late imm	imp, midleg				1,3	1,3	1,3	
	0200	28.5	♀	m	imp, post-lact preg?				3,1			

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PURBLO, D.O.  
1989

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: P. tui (p. 2)

June 12

June 11

Comments

SPD	No	WT	Sex	Age	Body	Occ	1	2	3	4	5
P. tui	W	01400	15.5	♂	Early SAD	RND				16.5	16.5
		0220	23	♀	M	looting				15.2	
		01020	23	♂	Early M	RND (close)				10.10	10.10
		0440	20	♀	M	imp, pregnant				16.12	
		040	24	♂	M	scrub				15.15	
		010	25.5	♂	M	scrub				10.7	
	N	01410	13	♀	Imm	nullop				9.7	
	N	01420	17.5	♀	SAD	imp, nullop				1.2	

Mutant? Patchy fur, bare on chest

N. fuscipes	N	1345	10.5	♀	SAD	imp/nullop				12.12	
	N	1347	10.5	♂	SAD	RND				1.1	



RIBBLE D.O.  
1988

Journal - GRID Data

Hastings Reservation, Monterey Co., Calif.

GRID WR: H. Puscipes

Sex	No	WT	Age	Buds	Dec	June 8	June 9	June 10	June 11	June 12	Comments
N	1321	220.0	♂	M	TND	12,12	12,12	11,9	11,9	5	Bot <del>ear</del> behind left ear
N	1322	124.0	♀	Imm	11,9	11,9	11,9	11,9	11,9	11,9	
N	1323	105.0	♂	Imm	TND	10,8	10,8	11,9	11,9	12,10	Bot on throat
N	1324	205.0	♀	M	LACTATING	11,8	11,8	11,9	11,9	12,10	#1238
N	1168	220.0	♂	M	SCROTAL	4,6	4,6	4,6	4,6	4,6	#1324
N	1324	185.0	♀	Imm	imp, null	3,3	3,3	3,3	3,3	3,3	
N	1254	200.0	♀	M	post-lac, imp	1,2	1,2	1,2	1,2	1,2	
N	1253	180.0	♀	5.AO	imp, null	4,2	4,3	4,2	4,2	4,2	Bot on back
N	1327	140.0	♀	Imm	null	9,10	9,10	9,10	9,10	9,10	#1329
N	1330	125.0	♀	Imm	null	5,6	5,6	5,6	5,6	5,6	3-Natural trap
N	1244	315	♂	M	SCROTAL	14,12	14,12	14,12	14,12	14,12	3-Natural trap
N	1170	295	♀	M	POGONAT?	13,10	13,10	13,10	13,10	13,10	4-tail bobbed in trap door.
N	1335	130	♀	Imm	unf, nullip	6,5	6,5	6,5	6,5	6,5	#1248
N	1248	195	♀	M	unf, parous	5,6	5,6	5,6	5,6	5,6	3-Natural trap
N	1167	310	♂	M	SCROTAL	5,3	5,3	5,3	5,3	5,3	3-Natural, 4-Natural
N	1177	305	♂	U	SCROTAL	1,1	1,1	1,1	1,1	1,1	
N	1337	175	♂	SAD	TND	15,14	15,14	15,14	15,14	15,14	4-tail, leg ripped up, leg broken - SD
N	1245	195	♀	M	unf, nullip(?)	14,12	14,12	14,12	14,12	14,12	SAD, head Cat # 879
N	1339	110	♂	Imm	TND	14,10	14,10	14,10	14,10	14,10	4-Natural
N	1340	85	♂	Imm	TND	10,7	10,7	10,7	10,7	10,7	
N	1341	115	♀	Imm	unf, nullip	5,5	5,5	5,5	5,5	5,5	4-Natural, rolled down to 3,3.
N	1342	215	♀	M	post-lac	4,2	4,2	4,2	4,2	4,2	
N	1344	250	♀	M	unf, parous	14,12	14,12	14,12	14,12	14,12	

(cont on P. two page 2)



RIBBLE, D.D.  
1980

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID W2: *P. boylii* & *ins*

Sp.	No	WT	Sex	Age	Bdgy	Dec					Comments
						1	2	3	4	5	
<i>P. boylii</i>	0140	22.0	♀	m	perf. imp	15,15	15,15	15,15	15,15		#140 ID questionable - manicled + tail w/ boylii tail
	0210	23.0	♀	m	post-lac. imp	5,5	4,4			5,10	2-lactating
	N 0410	18.0	♀	SAD	imp, n-1	5,6					
	0100	26.0	♂	m	scrotal	4,4	4,4				
	010	28.0	♂	m	scrotal	5,5				4,4	
	N 0420	10.5	♀	Imm	imp, nullip			16,15			
<i>M. notus</i>	N 0430	12	♂	Imm	AND			4,3		4,4	
	0240	25	♀	m	post-lact imp, parous				16,14		
	N 020	40	♀	m	imp, parous				12,10		
<i>P. regalis</i>	020	22.5	♀	m	imp. pregnant	16,14	16,14	15,12		16,14	
	0110	23.5	♀	m	perf. par	7,7	7,7		7,7		2-torper
	0210	26.0	♀	m	post-lac. imp.	3,4	5,5	3,4	3,4	3,3	
	N 0220	18	♂	SAD	AND				13,12	13,12	
	N? 0200	9	♂	m	Scrotal					4,6	

$$\begin{array}{r} 470 \\ 156 \overline{) 470} \\ \underline{156} \phantom{0} \\ 314 \phantom{0} \\ \underline{312} \\ 20 \end{array}$$

Riddle, D.O.  
1988

Journal-Grid Data

Hastings Reservation, Monterey Co., Calif.

GRID WIZ: N. Pussies only

GRID WIZ

Don't include in analysis

SPD	Ab	wt	Sex	Age	Body	Rec	1	2	3	4	5	Comments
N. Pussies	(N) 1395	175	♀	im	imp, parous	15, 14			15, 11	14, 13		
	1176	260	♀	im	parous, post-lact	12, 10	14, 10	12, 10	13, 10	14, 10		4-Natural 5-Touchmark
	1339	140	♂	SAD	TND	13, 10	13, 10	13, 10	13, 10			using ear tag (1-Touchmark)
(N)	1396	135	♀	imm	imp, nullip	14, 10				14, 10		
	1322	145	♀	SAD	imp, nullip	10, 8		16, 8	10, 8	10, 8		(1-Touchmark) 4-Touchmark
	1238	190	♀	m	imp, parous	11, 8	11, 8	11, 9		11, 8		(2-Touchmark) (3-Touchmark) 5-Touchmark
	1340	150	♂	SAD	TND	10, 6	10, 6	10, 9				(1-Touchmark)
	1335	160	♀	SAD	imp, nullip	6, 4				6, 4		
(N)	1400	155	♀	m	imp, parous	3, 2		3, 3	3, 3	3, 2		
(N)	1401	160	♀	SAD	imp, nullip		11, 13					
(N)	1402	125	♂	imm	TND		14, 10	13, 10				
(N)	1403	175	♂	SAD	TND		9, 10		10, 10			
(N)	1404	125	♂	imm	TND		11, 8		11, 9			
(N)	1405	220	♂	m	TND (Clogu)		8, 7	8, 7		8, 7		(2-3, Natural) 5-Natural
	1329	175	♀	m	imp, parous		8, 8					
	1337	210	♂	m	TND		14, 12	14, 12	14, 12	14, 12		3-(Touchmark) 4-Touchmark, 5-Touchmark
(N)	1408	170	♂	SAD	TND				16, 14			wt = 170g
(N)	1409	215	♀	m	null-imp, parous				10, 10			
	1323	160	♂	late SAD	TND				9, 7			4-Touchmark
(N)			m	m					8, 5			4-Escaped untagged - Don't include in analysis
	1321	230	♂	m	TND					14, 13		-Touchmark
	1177	320	♂	m	scuffed					1, 1		Touchmark #117(?)
	1253	175	♀	m	imp, parous					4, 2		
	1177	170	m	m	imp, parous							





RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WD: P. truei only

PTWRF-DAT

July 31  
July 30  
July 29  
July 28  
July 27

Species	No	WT	Sex	Age	Body	Dec	1	2	3	4	5	Comments
<u>P. truei</u>	01400	19	♂	early m	TND	16,14	16,15	16,14	16,14			
↓	0220	21	♀	m	imp par	16,13	16,14				15,13	
	040	23	♂	m	<del>TND (close)</del>	15,13	15,13	15,12	15,12	16,14	15,12	2-setated (true on 2 #0400) This one is TND (close)
(N)	01430	18.5	♂	m	TND	15,12	15,15	15,15				3-16,11
(N)	01440	16.5	♂	imm	TND	13,12	13,12	13,12			13,12	
	01220	20.5	♂	m	TND	14,10	14,10	14,10	14,10			
	0230	20.5	♂	m	TND (close)	14,10				13,11	11,10	
(N)	02000	18.5	♀	SAD	imp, nullip	9,10				13,10	10,10	
	01410	16.5	♀	SAD	imp, nullip	9,7	8,7	8,7	8,7	9,7	9,6	uncertain?; patchy fur
	01020	23.5	♂	m	TND	9,8		9,10	10,9			
	0130	25	♂	m	scrotal	8,6	9,7	7,7	8,7			
	0310	26.5	♀	m	imp, par	7,5		8,5	7,5			1-7,5
(N)	02010	16.5	♀	late imm	nullip	8,5	8,5					
	01330	22	♂	m	scrotal	6,4	6,4	6,4	6,4	6,4	6,4	5-6,4
(N)	01620	19	♀	SAD	imp, nullip	3,3	4,3	3,2	4,3			1-3,3
(N)	02030	19.5	♂	m	TND	1,2		1,1	1,1	1,1	2,3	
(N)	02040	16.5	♂	SAD	TND	1,1	2,1	1,1			1,1	
	01030	25	♂	m	TND	4,2	3,2	4,3	5,4	4,3		
	0440	23.5	♀	m	inst. ant. (ant. not)		15,13				16,14	3-16,14 2 ACTA-TENG
0400	23	♂	m	m	scrotal		16,13			16,12		2 - wrong #?
more (N)	02400	23	♀	early m	imp, parous		15,12			15,13		
(N)	02110	17.5	♀	imm	nullip, imp		13,12					
	0120	29	♀	m	post lact, imp		12,12					
	01240	19.5	♀	m	imp, nullip		9,10			10,10		#1240

0.6 - 0800  
4.6, 830 - stopped 0834.30m

RIBBLE, D.O.  
1998

Journal-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: P. truei only (p2)

NEW - 02130

Spp	No.	Wt	Sex	Age	Budg	Dec 1	2	3	4	5
P. truei	0430	24.5	♀	m	in p.p.	9.9	7.7			
↓	0210	22.5	♂	m	scrotal (bandy)	3.1	3.2			
	0310	18.5	♀	m	in p.p.		6.12			
	0300	22.5	♂	m	scrotal		10.10			
	010	25.5	♂	m	scrotal		9.6	7-9.5		
	01130	25	♀	m	post-lact, w.p.			15.15	15.15	
(N) 02120	20		♀	early m	w.p. nullip			15.15	15.15	
0200	27.5		♀	m	lactating			3.2	3.1	
01100	23		♀	m	w.p. p-lact			9.10		
0140	25		♂	m	scrotal			4.3		



Ribble, D.O.  
1988

Journal-Grid Data

Hastings Reservation, Monterey Co., Calif.

GRID W02: Misc. species

Spp	No	wt	Sex	Age	Budg	Dec 1	2	3	4	5	Comments
<i>P. baylei</i>	0210	23	♀	m	imp, paras	4,6	4,6	4,6	4,6		
✓	(N) 0440	20	♀	r	imp, nullip	3,4			4,4	4,4	
	0410	17	♀	m	imp, paras			1,3	2,3		
(N)	01000		♀	late SAD	imp, nullip.					3,2	

<i>Perognathus</i>	(N) 0230	19	♀	m	paras, imp	9,10	10,10	10,10	10,10	10,10	
✓	0110	27	♀	m	tact pregnant	7,7				7,7	2-lactating (gave birth)
(N)	0240	20.5	♀	m	imp, nullip	4,6		6,6	6,6		
	0210	28	♀	m	pregnant	3,3	3,3	3,3	3,3	3,3	
(N)	0200	25	♂	m	TNO (close)		11,9		10,9	11,9	



LIBBLE, D.D.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRIDWR: *Peromyscus Californicus* only

July 31  
July 30  
July 29  
July 28  
July 27

Sp	No	Wt	Sex	Age	Bdg	Occ	1	2	3	4	5	6	Comments	10	Comments
<i>P. californicus</i>	0100	36	♂	m	scrotal	15,12	16,15				4,10		1- last ear tag + no toe clip clipped #0100 (tail cut by 1-tail + 1-injured) (#1338)		
	0388	36	♀	SAD	imp, nullip	13,11					15,12				
	1164	43.5	♀	m	imp, post led	11,9				7,5					
	1397	17.5	♀	imm	nullip	11,9			11,9	8,5			white tail tip		
	1328	23	♂	early m	<del>scrotal</del> scrotal	7,6	6,6	6,6	6,6	6,6	6,6				
	1121	37.5	♂	m	scrotal	7,5	11,9								
	1197	41	♀	m	imp, (pregnant) parous	6,5				6,5	6,5		4-388. not pregnant		
	1242	30.5	♂	early m	IND	4,3	1,3			1,2					
	1399	30.5	♀	early m	perf. nullip	1,3									
	1249	42.5	♀	m	imp. parous		16,14			16,15					
	1406	33	♀	SAD	imp, nullip	7,5	7,6			7,6			2- returned + was bled at truck		
	1407	17.5	♂	imm	IND	8,5							wt 23 2- bled at truck		
	1118	43.5	♂	m	scrotal				5,5						





ROBBIE, D.D.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WP: *Peromyscus californicus*

Species	No.	WT	Sex	Age	Body	OC	1	2	3	4	5	6	7	8	9	Comments
<i>Peromyscus N</i>	11161	33	♂	Early m	two		16, 15				15, 15					1-Houses collected.
	11175	33	♀	m	nullip, imp		16, 15	16, 15		16, 14	16, 15					Wound on chest.
	11957	39	♀	m	lactating		15, 15	16, 15	15, 12	16, 15	15, 12					Dusked RED powder.
<i>N</i>	11163	18	♂	Imm	TND		11, 9	10, 10	10, 9	9, 10						Tissues collected: white tail tip
<i>N</i>	11164	46	♀	m	imp, pregnant (pupae)		11, 9			43g						2-corned by 17mm - for 100% lactating
	11121	36	♂	m	scrotal		10, 10			12, 10						Tissues collected DUSKED GREEN
	11116	38.5	♂	m	scrotal		6, 6	5, 5		6, 5	6, 5					white tail tip
	11119	35	♀	Early m	nullip, imp		7, 5		8, 5	6, 5	6, 4					
	11119	37.5	♂	m	TND		6, 5		4, 6	6, 4						
<i>N</i>	11166	29	♀	SAD	imp, nullip		5, 5									Tissues collected: white tail tip.
	11127	34	♂	Early m	TND		4, 3	4, 3	3, 2	2, 2						
<i>N</i>	11170	26.5	♀	SAD	imp, nullip		15, 12	10, 14	15, 12	16, 14						2-corned to lab for tissues
	11964	32	♀	m	<del>imp</del> , nullip		3, 2			4, 3	2, 2					
	11113	33	♂	Early m	TND		16, 15	16, 14								
<i>N</i>	11175	21	♀	Imm	nullip					12, 10	12, 10					5-eye bone



RIBBLE, D.D.  
1988

Journal - GRID Data

Hastings Reservation, Mendocino Co., Calif.

GRID W12: *P. boylii* & *P. truei*

Spp.	No	Wt.	Sex	Age	Brdg	Jan 23 (an)	Jan 24 (an)	Jan 25 (an)	Jan 26 (an)	Jan 27 (an)	6	7	8	9	Comments
<i>P. boylii</i>	N 040	17.5	♂	SAD	TND	9,10	10,10	9,10	8,9	9,10					
	N 0100	20	♂	M	Scrotal	5,5	4,4	5,6							
	(030) 0130	21	♀	M	imp, parous	5,6									Wad ptc # 030, clipped by mule
	N 0140	25	♀	M	prog?		15,14	15,15		15,14					
	N 0200	16	♀	late SAD	imp, parous			10,10							
<i>P. boylii</i>	N 0210	16	♀	SAD	imp, nullip			6,5		5,6					
<i>P. truei</i>	N 0330	18.5	♂	SAD	TND			12,10							
	N 0320	20	♂	Imm	TND			15,11	11,13	16,12					
	0100	37	♀	M	pregnant		1,2	8,3	3,3	2,3					prc 4-lactating, 29g
	N 0310	21	♀	M	imp parous		7,5		8,5						
	N 0300	20	♂	early m	TND		9,10								
	N 0240	18	♂	early SAD	TND		13,12	14,10		15,11					
	N 0230	17	♂	Imm	TND		16,12		15,11	15,11					
	N 0220	18	♀	SAD	imp nullip		16,13								
	N 0210	22	♂	M	TND	4,2		3,3	4,3	4,2					
	N 0200	20.5	♀	early m	imp, nullip	3,2	3,2	3,2	3,2	3,2					
<i>P. truei</i>	N 040	22	♂	M	TND/Scrotal	16,13		16,13	16,12	16,13					Not seen on 1D, maybe <i>P. boylii</i> sex
	N 0110	23	♂	M	Scrotal	13,12		13,12	12,12	14,13					
	N 0120	24	♀	M	nullip, imp preg?	12,12				11,10					
	010	25	♂	M	Scrotal	7,5	12,10	8,5	8,6	8,5					
	N 0130	18	♂	Imm	TND	2,3	6,5	2,2	9,6						
	030	25.5	♂	M	TND	1,3	7,3	1,2	4,2	4,3					
	N 0140	26	♂	M	Scrotal	1,2	3,3	2,3	2,3						



RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WP: *Peromyscus truei* (p 2)

Species	No	Wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9
<i>P. truei</i>	N 0340	26	♀	IM	lactating					14,10					
	N 0400	26	♂?	IM	scrotal						16,15				
	N 0410	24	♂	Early im	AND						1,3				



RIBBLE, P.D.  
1989

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.  
GRID WR: *Perognathus*, *Neotoma*, & *Wise*

Sp.	No	Wt	Sex	Age	Body	Dec	1	2	3	4	5	6	7	8	9	Comments
<i>N. fasciatus</i>	N 1102	290	♂	M	scap		15, 12	14, 12	14, 12	14, 12						2 - caught in Tomahawk trap 3 - " " " 4 - same
	N 1105	250	♂	M	scap		11, 8	11, 10								
	1115	140	♀	Imm	nullip		8, 0									
	Trap opened - wire slipped out.															
	N 1167	330	♂	M	scap		5, 3				5, 3					
	N 1168	265	♂	M	scap		4, 6									
	N 1169	240	♀	Early M	imp nullip		4, 2									
	N 1171	285	♂	M	scap			12, 11	13, 10							
	1114		♂	M				9, 7								
	N 1172	180	♀	Scap	imp, nullip			9, 10			9, 10					
	N 1173	235	♀	M	imp, nullip			3, 4								
	1126	220	♂	Early M	scap			2, 1			2, 1					
<i>N. fasciatus</i>	N 1174	240	♂	M	scap				15, 15							3 - caught in Tomahawk trap
<i>S. trichas</i>	Q 125	60	♂	M	scap		6, 4									
	N 010		♂					9, 10								
	?															2 - caught in PM
																Escaped
<i>Perognathus</i>	0100	24	♂	M	scap			1, 3	1, 3	1, 3						PRC
	010	24	♀	M	imp, parous					15, 15	15, 15					PRC. Check # again ✓
<i>N. fasciatus</i>	N 1176	255	♀	M	imp nullip						13, 10	13, 10				lost tip of tail shortly.
	N 1177	320	♂	M	scap						1, 1	1, 1				Huge!
	N 1178	225	♀	M	imp, nullip							11, 8				





RIBBLE, D.D.  
1989

JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WD: *P. californicus* ONLY

Sp	No	wt	Sex	Age	Bdyg	Occ	March 2 (Am)	March 3 (Am)	March 4 (Am)	March 5 (Am)	March 6 (Am)	Comments
<i>P. californicus</i>	N 1195	20.5	♂	Im	TND		16, 14			15, 12	16, 15	Wound on Chest.
✓	1170	34	♀	SAD	perf. unimp		15, 15	15, 13	15, 13	15, 15	14, 12	
✓	1958	34	♂	M	scrotal		14, 12	15, 12	16, 14		15, 12	5-tail collected
✓	1957	45	♀	M	Parous. imp. <del>scrotal</del> lact.		15, 12			15, 13	15, 12	4-42g lactating. Apparently gave birth. TAIL collected 5-grams fine
✓	1175	31.5	♀	SAD	imp, nullip		11, 9	11, 8		8, 5		
✓	1163	31	♂	SAD	TND		11, 8		11, 9	11, 9	11, 8	new white-tail-tip. TAIL COLLECTED
✓	1118	40.5	♂	M	TND (close)		6, 4	5, 3				
N 1197	32	♀	SAD	imp nullip			4, 2	4, 2	4, 3	5, 3	6, 5	testes collect. White tail-tip 2-egg fine
✓	1113	34	♂	M	TND			16, 14	16, 15	16, 15		
✓	1164	43.5	♀	M	lactating			11, 9		11, 9	11, 9	Ear tag slipped around. Difficult to read. TAIL COLLECTED
✓	1121	37.5	♂	M	scrotal			11, 9	11, 9			
✓	1119	43	♀	M	pregnant			8, 5		6, 4		Tail collected.
✓	1116	43	♂	M	scrotal			6, 4			18, 10	Tail collected.
✓	1125	36.5	♀	M	imp, nullip				16, 14			
✓	1127	33	♂	Emb m	TND (close)				3, 2			
Cat # 838	weighting		♀	M	lactating					3, 3		- caught by tail. Dead with head clamped off. Left ear intact which had been cut = C 13. Probably 1964, tagged 21 Oct 87



RIBBLE, D.O.  
1988

Journal - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: *P. truei* only

Species	No	Wt	Sex	Age	Budg	Dec	1	2	3	4	5	Comments
<i>P. truei</i>	0220	18.5	♀	late SAD	imp nullip	16,14					16,14	
	0320	20.5	♂	early M	TND	16,12				16,12	15,13	
	0230	17	♂	late SAD	TND	15,12			13,11	14,10		
	0110	25	♂	M	two (close)	13,12	13,12			13,12	13,12	
N	0420	18.5	♂	SAD	TND	11,10?	10,11		10,10	16,10	10,10	
	0310	23	♀	M	nullip	9,7						
	010	27.5	♂	M	scratal	9,8	8,5				10,7	
	0140	28	♂	M	scratal	4,3	1,3	3,3				
	0130	22	♂	M	TND	3,3	4,4			8,8	7,6	
N	0430	21.5	♀	SAD	imp nullip		10,10	9,10				
	0310	23	♀	M	imp, parous		10,7			8,5		
	0200	22.5	♀	early M	imp, nullip		4,3	4,2	4,2	4,2		
	0330	21	♂	M	scratal		3,3				1,3	
	0100	32	♀	M	pregnat		1,2	1,2	1,3	2,2		
	0210	23.5	♂	M	scratal		4,2	3,2	3,2	4,2		
N	0440	23	♀	M	imp parous					15,12		
	0120	26	♀	M	imp. post oct.					13,12	12,12	
	0240	20.5	♂	late SAD	TND					10,6?	11,10	
N	01000	20.5	♂	early H	scratal					10,7		
N	01010	29	♂	M	scratal						13,12	

1

2

3

4

RIBBLE, D.O.  
1988

JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: *P. boylii* & Misc.

March 6 (Am) 5  
March 5 (Am) 4  
March 4 (Am) 3  
March 3 (Am) 2  
March 2 (Am) 1

Comments

Caught in National!

2 - Caught in PM and released.  
4 - Abolished Cat # 933

Fluffy - 0220  
Sp. 2 - 0220

Species

*P. boylii*

No

Age

Budg

Dec

1

2

3

4

5

N

0220

15

♀

early

imp

nullip

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0230

14.5

♂

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0140

22.5

♀

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

0200

17.5

♀

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

0210

19

♀

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

0100

28

♂

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0240

19.5

♀

early

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0300

17

♀

early

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0310

13

♂

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

N

0320

28

♂

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

*Stenobothrus*

0200

7g

♀

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

*Perognathus*

0100

24.5

♂

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15

0130

21

♀

imm

16,15

15,15

15,14

15,15

15,13

9,10

5,5

3,4

5,5

16,14

16,15

15,15



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID WR: N. fuscipes ONLY

Species	No	Wt	Sex	Age	Budy	Occ	March 2 (Am)	March 3 (Am)	March 4 (Am)	March 5 (Am)	March 6 (Am)	Comments
<u>N. fuscipes</u>	1162	270	♂	M	scrotal		14,12	14,12	14,12	14,12	14,12	1 - caught in National
	1176	250	♀	M	Post-lact? unsp, parous		13,10	13,10		13,10		1 } caught in same trap 1 }
	N 1196	295	♂	M	scrotal		13,10		13,10	13,10		caught in National
	1177	340	♂	M	scrotal		1,1		1,1			
	1115	175	♀	SAD	mullup unsp			8,7				
	N 1198	205	♀	M	mullup unsp				14,12			
	1171	315	♂	M	scrotal				11,8			





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JOURNAL-GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR - *P. californicus* only

SPP.	NO	WT	SEX	AGE	Body	Dec	1	2	3	4	5
<i>P. californicus</i>	010	34.5	♂	IM	TND		15,13	16,15	16,15		
✓	1249	42.5	♀	IM	up, narrow pregnant		15,13		16,15 15,12 15,12		
✓	1429	117	♀	Imm	mullip		7,6		8,5	7,6	
✓	1121	36	♂	m	scrotal		4,5				
✓	1430	17.5	♀	Imm	mullip		8,5	7,5	7,5		
✓	1175	40	♀	IM	up, mullip		14,5	3,3	6,5	0,4	
✓	1197	39.5	♀	IM	lactating		4,3	6,5	4,3		4,3
✓	1338	36	♀	IM	up, mullip?		3,3	15,13	13,5	15,13	
✓	1431	31	♀	Early m	up, mullip		2,2	2,1	2,1	2,1	2,2
	810	32	♂	IM	TND			14,15			
✓	1433	34	♀	IM	up, mullip			16,14	16,14		
✓	1118	43	♂	IM	scrotal			6,5		6,5	
✓	1434	14.5	♂	Imm	TND			4,4		4,3	
✓	1435	37	♀	IM	up, mullip			6,6	6,5	6,5	
✓	1164	47.5	♀	IM	post-lact pregnant			7,5			
✓	1436	16	♂	Imm	TND					4,3	
✓	1328	37.5	♂	IM	TND						16,15

Comments  
ear tag loss. Pinned; add. Tip of tail cut.  
TC # 810  
1 coll tail tip  
returned to touch for tissues  
coll tail tip  
returned to touch  
tail bobbed - coll? NO 3 - tail coll.  
tail collected  
tail bobbed - coll? NO 2 - correct location  
returned to lab  
ear tag lost, PTC # 810 above.  
returned to lab for tissues  
2 - coll tail  
returned to lab for tissues  
returned to touch for tissues  
tail prev coll.  
4 - caught in same trap as 1434, returned to  
touch for tissues - white tail tip  
tail coll



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID WR = *P. truei* only

Spp.	No	WT	Sex	Age	Bdgs	Date					Comments
						Oct 1	2	3	4	5	
<i>P. truei</i> ↓	01130	26	♀	M	up, parous	16,15			15,15		
	040	23	♂	M	TND	16,13	16,12	15,13	15,13	15,13	
	0210	21.5	♀	M	up, nullip parous	15,14	13,12	15,14	15,14		12
	01400	20.5	♂	M	TND	15,15		15,15	16,15	15,16	
	020	22.5	♀	M	up, parous	15,11	15,12	15,11		16,12	
	0230	21.5	♂	M	scrotal	13,12	13,12	13,12	13,12	13,12	
	0130	26	♂	M	scrotal	10,10		10,10			
	01240	21	♀	M	up, parous	10,10	9,10	9,10	10,10	10,10	
	010	26	♂	M	TND (close)	10,16			9,6	10,7	10
	02010	22	♀	M	up, nullip	9,6	9,6	9,10	7,5		defun. to truei, actually # 014
	0430	25	♀	♀-M	up, parous	6,6	6,6		7,7	8,7	
	0310	25.5	♀	M	up, parous post-nat	7,6	7,6	7,6	7,6	9,6	
	01030	26	♂	M	TND	5,5	4,3	3,3		4,4	
	02020	21	♀	M	up, nullip	4,4	3,3	4,4	3,1		10?; ear = 24mm
	020	27	♀	M	up, parous		4,2	4,2	4,2	4,2	
	0210	23	♂	M	TND (close)		3,1	3,1			
	0440	21.5	♂	M	TND			16,15	14,12	15,13	
N	02130	19	♂	SM	TND				15,15	16,15	
N	02140	22	♂	M	TND				13,12		
N	02200	22.5	♀	M	up, nullip					16,12	
N	02210	16.5	♀	SD	up, nullip					10,10	
N	02220	17.5	♀	adult	up, nullip					3,1	



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Journal - GRID Data

Hastings Reservation, Monterey Co., Calif.

GRID WR: *N. fuscipes* only

SPP	No	WT	Sex	Age	Body	Dec 1	2	3	4	5	Comments
<i>N. fuscipes</i> N	1424	225	♀	M	up, parous	16, 14					
↓	1425	170	♀	early M	up, nullip	15, 14	16, 15	16, 15, 15			
	1408	225	♂	M	TND	13, 11	12, 12		13, 11		4 - Nall trap
	1404	190	♂	Early M	TND	12, 10			12, 10		2 - Nall trap 4 - Nall 5 - Nall
	1176	295	♀	M	up, parous	13, 10	13, 10	13, 10	13, 10	13, 10	
	1396	195	♀	M	up, parous	14, 10				14, 10	
	1323	185	♂	M	TND	10, 8	9, 7	9, 7	9, 7		1322 on 23?
	1238	210	♀	M	up, parous	11, 8	11, 8				
	1329	190	♀	M	up, nullip (?)	8, 8		7, 7		9, 8	
	1405	250	♂	M	scrotal	8, 7	8, 7	8, 7	8, 7		2 - Nall trap 4 - Nall
N	1428	150	♂	SAD	TND	7, 7					
	1335	195	♀	M	up, nullip	6, 4	6, 4				
	1321	280	♂	M	scrotal		14, 13				2 - Nall trap
	1337	250	♂	M	scrotal		15, 12	15, 12		15, 12	2 - Nall trap 5 - Nall
	1322	165	♀	2nd	up, parous		10, 8	10, 8	10, 8		
	1341	165	♀	2nd	comp, nullip		6, 6				2 - Nall trap
	1253	215	♀	M	up, parous		5, 3				
	1400	170	♀	M	up, nullip		3, 2	3, 2		3, 2	
	1401	180	♀	early M	up, nullip			14, 13			3 - 48 found, trap caught off Nall trap
	1167	320	♂	M	scrotal		5, 3			5, 3	3 - Nall 5 - Nall
	1166	240	♂	M	scrotal		4, 6	4, 6	4, 6	4, 6	3 - Nall 5 - Nall
	1177	325	♂	M	scrotal		1, 1	1, 1	1, 1	1, 1	3 - Nall 5 - Nall
	1339	190	♂	M	TND			12, 10		12, 10	
N	1437	200	♂	M	scrotal					10, 6	Nall Nall, lost ear-tag, Tagged left ea





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif.

GRID WR: *P. boylii* & *Perognathus*

*P. boylii* 01010  
*Perognathus* 01010

SPP	No.	Wt	Sex	Age	Bldg	Dec	1	2	3	4	5	Comments
<i>P. boylii</i> ↓	0140	21.5	♀	M	unp, paras		15,15					
<i>P. hesperus</i>	N 1438	27.0	♂	M	scatd						8,5	
<i>Perognathus</i> ↓	0230	21	♀	M	unp, paras		11,9	10,10	11,9			
	0240	22	♀	M	unp, paras		5,5	5,5	5,5	4,5		
	N 0300	19.5	♀	M	unp, paras		2,3	1,3	3,3	3,3		slightly rapid.
	① 0320	25.5	♂	M	TND		1,3	4,2	3,1	4,3		
	010	25	♀	M	unp, paras			15,13	14,14	15,14		
	0300	23	♂	M	scatd			11,9	11,9	11,9		
	0110	23.5	♀	M	unp, paras			7,7	7,7	6,6		
	② 0330	24	♂	M	TND			8,5	8,5			
	N 0340	19	♀	M	unp, paras			3,4	4,3	4,5		
	0120	22	♀	M	unp, paras			1,3		1,2	1,3	
	N 0400	23	♂	M	TND			15,12	14,11	16,14		
	N 0410	27	♂	M	TND			10,10				
	N 0420	25	♂	M	TND					4,4		
	N 0430	21	♀	M	unp, paras						8,6	





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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID WR - *P. californicus* ONLY

Dec 9  
Dec 8  
Dec 7  
Dec 6  
Dec 5

Spp	No	Wt	Sex	Age	Budy	Dec	1	2	3	4	5	Comments
<i>P. californicus</i>	1338	41.5	♀	M	perf, nullip	15, 12	15, 12	15, 12	13, 11	13, 11	13, 11	
	0110	34.5	♂	M	scrotal	15, 12	15, 12	15, 12	15, 13	15, 12		
	1435	37	♀	M	perf, nullip	7, 5	7, 6	6, 5	6, 5	4, 3	7, 5	
	1429	28.5	♀	SD	up, nullip	8, 5	7, 4	7, 6	7, 6	7, 5	7, 7	
	1435	40.5	♀	M	perf, nullip	8, 4	7, 4	7, 4	7, 4	7, 4	7, 4	
	1116	39.5	♂	M	scrotal	7, 5						
	1175	42.5	♀	M	perf, pregnant	6, 4	7, 5	7, 5	7, 5	6, 5	7, 5	4 wt = 37.5, not pregnant, not lactating (Feed note!)
	1118	46	♂	M	scrotal	6, 5	6, 5	6, 5	6, 5	6, 5	6, 5	
	1450	32.5	♀	M	perf, nullip	8, 5						See spp sect 4 Dec.
<i>P. truei</i>	0120	25.5	♀	M	up, parous						4, 2	

11

*(Handwritten scribbles)*

JOURNAL - GRID DATA

GRID WR: N. Aesculus

[illegible]



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JOURNAL - GRID DATA

Hastings Reservation, Monterey Co., Calif

GRID WR: *P. truei* only

Dec 5  
Dec 6  
Dec 7  
Dec 8  
Dec 9

02410

Spp.	No	WT	Sex	Age	Bldg	Dec 1	2	3	4	5	Comments	Converted Cof A
<i>P. truei</i>	040	23	♂	M	TND	16,14	16,14	16,12	16,12	15,11		6.2, 27.4
✓	040	24.5	♀	M	up, paras	16,12	16,12	16,14	16,14	16,12		6.2,
	0400	21.5	♂	M	TND	15,15	15,15	16,15		16,15		
	0220	22	♀	M	up, nullip	14,12			15,12	15,12		
	0240	22.5	♂	M	TND	13,12	13,12	14,11	14,11			
	0230	22	♂	M	TND	13,11	11,10	13,11	14,12	14,11		
	02210	18	♀	2nd	up, nullip	10,10		9,10		9,10		
	0430	25.5	♀	M	up, paras(?)	F <sub>16</sub>		7,6		5,6		
	02010	22	♀	M	up, nullip	6,5	9,6	8,5		5,5		
	01030	26.5	♂	M	TND	4,3	4,3	4,2		4,4		
	0140	25.5	♂	M	TND	2,3			1,3			
	02040	23	♂	M	TND	1,3	1,3	2,3	2,1	2,3		
(N)	02230	24	♂	M	TND	1,1			1,1	1,1		
	02020	22.5	♀	M	up, nullip	4,2	3,2	3,2	4,2			
	01000	22.5	♂	M	TND (claw)		14,10		15,11	14,11		
	0130	26.5	♂	M	TND		9,8	9,8	7,6	7,6		
(N) 02450	32.5	♀	M	up, nullip		8,5				8,5		
(N) 02240	23.5	♀	M	up, nullip				10,9				
0310	24	♀	M	up, nullip				9,6	10,6			
(N) 02300	22	♂	M	TND				6,4				
(N) 02310	20	♂	M	TND				4,3		4,2		
(N) 02320	17.5	♂	2M	TND				1,3		2,2		
(N) 01000	21	♀	M	up, nullip				3,1	3,1	3,1		
02120	22	♀	M	up, nullip				1	15,13	15,13		

(T+ rear legs and feet mangled, barely functional, only one toe. Not sure on id ?? huge tail & pelage ?? truei behavior)

(Wt = 26.5, P. californicus referred for tissue)

New - not used for anal





## Journal-Grid Data

GRID <sup>WR</sup> ~~WR~~ Misc Species

[illegible]

15  
2

25  
13  
—  
38

803333















